gacgatttaa aaagatccag ggtgacgggc ccgtgcatgc gacggcttcg ctcttacata 120

gacttaccta aattcaatta 140

<210> 34937
<211> 68
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-H3

<400> 34937

cccacgcgtc cgaaaaaaaa aaaaaggata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

gagaaagg 68

<210> 34938
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D8

<400> 34938

cagcagtcac cactcccaag ccagtggcta ttcctacgag cagtcgcacg caagtgtcag 60

tagactaaac gggggacatg ggtcgcacgc aatctgtcgt agcggtcgtc gtggtggccg 120

cggtgctgct gctggcagcg gcggcgacga ccttgtatgc cgccatcacc tgcgggcagg 180

tgagctccgc catcgctccc tgcctctcct acgcccgcgg cacggtgtcc ggcccctccg 240

cgttctgctg tagcggcgtt aggaacctca agagcgccgt cagcaccgcc tccgacaggc 300

gctccgcctg caactgcctc aagaactccg tcaggggcgt cagttgcctc tacttcggta 360

acgcctgcag cattcccttc aagtgctgtg tcagcattcc ctacaccatc agcaccttca 420

cctac 425

<210> 34939
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G6

<400> 34939

cggacgcgtg ggcggacgcg tgggaaaaaa aaaaaaaaaa aaaaaaaaaa aaagagaaag 60

ggaaaaataa taaggataca aaaattaaaa acacatacat acaaaaaaat ggcgtcttct 120

ttataggttc ctagtttcct ttcacttgct ttcgatttac tacttttttt ttagtgtaac 180

ttatatttat ttcattgtt 199

<210> 34940
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-H4

<400> 34940

gctttacatg ctggccacgc agatgcaggc catggaggtc gtgacaacgc tggggatggt 60

gtcgccgcac tcgcccgacg aggagtacat gggggagttc gcggagccgt cgtggctggc 120

ggagcccatg gtgaatgctg cgttcgagaa gttcggcggc atgatgaagg agatcgaggg 180

gttcatcgac gagtgcatca acaacctgta cct 213

<210> 34941
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A7

<400> 34941

aaaaataaga aaggttaatt ataaaccaag gggcatcata tatattcata catacgtaca 60

tgatcactgc atgtgacaca tctaagcaca taaagttagc tatttactca tagacactca 120

cgaaggctct gtctgcaccc aaagcacaga attttaacaa ctaaagcctt acgagacgac 180

caacatcatt aaggacttca acgagcctcc gtttctggac ccgatcagtc tcttacttgg 240

ccccaccaag ttcatggtca tacaaggcga gcccggcgct gtcatccatg ggaagaaggg 300

atctggaggc ataactgtga a 321

<210> 34942
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B12

<400> 34942

cggacgcttg ggcggactcg ttggcaaagg acctgagtgc gctgtggact ggcgcaccgg 60

gctgttctgt gtgccaccgg acagtgttcg gtgcaccatg cccgtgcaaa tccgaagcag 120

ccactctagg gaattcaacg acgccctccg ctataattca ccggactgtc cggtgtgcca 180

gcggatcatc ggctaactcg tgccaacggg cgactctgac ggctgaacag tgttacgaca 240

gaagtcatag cagaaagtca cagggcaccg gact 274

<210> 34943
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B9

<400> 34943

cccgcatcga acctcacccc cgatctgatc taatcgaagg ctgcggcggc gatgggcggg 60

gaccatggcg gtgggcacgc cggcggcgac ttccgccaga aggtatggag catgacgggc 120

ggcccctact gccgccccgt ccactggcgc cgtaacaccg ccatcgccat gttcggcgtc 180

ttcctcatct gcatccccat cgctatgaag tccgcagagc tcgagcaacg cccgcatcac 240

ccagtccggc caatcccatc tcaactgtgg tgcaaaaact ttggtaagaa ggaatactga 300

aggaccctgc aactagcatg aagtgtgggc accttgcttt tgccttctat atgtggaaac 360

ctgtgcctag ccataatgct gggttaagtg ttaggagcat ctctggaatg cttcgcgtag 420

tatctcttga tacttctttc cttc 444

<210> 34944
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-C1

<400> 34944

acgcttacgt ccagctagcc cttgccgtcg ctcgtctcct ttagaggcgc cggcaccgac 60

gatctggccc gggtctattt gcagaagcgc ggtcacttgt ctcagcccgg ggtctgctgc 120

gtctggtggt ggtgaatggg agaacctcgt gacgatctgt tccggatcaa gcgtgcgagc 180

tcgggaatca ggggtttcac acatagctgt tgcgatctga attcgatgta ctaatggagt 240

ctaatgccgg ctaaaagtct agccttactt actctatgat gtctgaagct ccccttggct 300

acagcattga cgacgttcga tctgtc 326

<210> 34945
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-C2

<400> 34945

tatcactaaa accgaggact gtgagagttt tttcaacttt ttcaatcccc cgcaggtccc 60

tggagatgat gatgacatcg atgaagacac tgctgatgag ctgcagagtc aaatggagca 120

tgattatgac attgggacca ccataaggga taagattatc cctcatgcag tttcctggtt 180

tactggtgag gctgtgcaag gtgaggattt tggtgagttg ggcgatgatg atgaagatga 240

tgatgatgaa gacgatgacg aagatgatga ggatgaagaa gaggatgatg atgatgaaga 300

ggatgatgag gaagaaagca agccagcaag gaagtcaaga tctggtcgca gacataaggc 360

gccacagaaa gtgtcccatg gaaatgcgga acaaccagcg gagtgcaagc agcaataaaa 420

tggcccgttg atgttggttg atgcaatatt t 451

<210> 34946
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-C8

<400> 34946

cggacgcgtg ggcggactcg tgggcttacg tgtgggcgac gagggtgacg agtactagag 60

aggtttgctg atgacgcagc atcaggccag tgtgctgccc ttatcccgtg atctgccgag 120

agttgctcct gctatcgtgt tatgtgtgtc tgttctgaag tattgtgtgg tttacaacac 180

ctgatgttgt aagagttgct aattcccctg cattgctacc gggttattga gaataattat 240

ggctgcttac gttgttgctt caaaaaacga acacattatt 280

<210> 34947
<211> 77
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D7

<400> 34947

cccacgcgtc cgaaaaataa aaaattttat ttataaaaaa aaaaaaaaaa aaaaaaagag 60

gaagagtaaa ataaaaa 77

<210> 34948
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-E6

<400> 34948

tcggttacgc gtccggggac gcgtgggaaa agggaaggga aaaaataaaa aaaaagaagg 60

gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggacgg gagatataga gggataaaga 120

gtaattagac ttaaatgcga ctaaatatat attcgatagc gtgagataaa ttaaatttag 180

gggctagtag ttttaaaaat aacgagactg tgaaaac 217

<210> 34949
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-F3

<400> 34949

cggacgcgtg ggcaggccgc ggccggcggg tacggttagt ccgccgagta cacggaggcc 60

acggtgacgg aggtcgtgtc cacgggcgag aacgagtacg acgagtacaa gaaggaggag 120

aagcagcaca tgcacaagca gcacctcggc gaggccggcg ccatcgccgt cggcgccttc 180

gcactctacg agaagcacga ggcgaagaag gacccggagc acgcgcaccg tcacaagatc 240

gaggaggagg tcgcggcggc ggctgtcgtc ggctccggcg gcttcgcctt ccacgagcac 300

cactagaaga agaaggacca catggaggcc gatgaggccg gctgcgagaa gaagcaccac 360

ttcttcggct agctgattga tcctaccata tcgatcgtcg tacctaccct gttgctacgc 420

gtgcgtgtga gagtgatatc gagcg 445

<210> 34950
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-F9

<400> 34950

tcgcccactc gtccgcccac tcgtccgaaa atttattaaa aaaaaaaaaa aaaaaaaaaa 60

acagaggggt tttataaaaa aatgcgggct tacaaaaacg ttcatgctac ttcatatccc 120

tatcataggt tcacctaaat acaatt 146

<210> 34951
<211> 266
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-059-Q1-K1-H10

<400> 34951

gaaagaattt cactggctac atagcaccac ggtttgacaa ccgcagacca aacaaangag 60

gcggccnatt tccaaggccg ccgggcctgg caccgcagct acctcctcta cggctcgccg 120

ggcacaggca agtccacgtt cgcggcggcc atggccaggt tcctaggcta cgacgttgac 180

ctgtctcgca ccgatgccgt cgtcgacgac ctccgcgcgc tgctcctgca caccaccccg 240

cgctcgctcg tccttgtcga ggacct 266

<210> 34952
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-A5

<400> 34952

tctggctgca gagcactaga gttctgctgc ctacccttgc cgccttgcgt atggtgtgta 60

cacttcacaa tatggcaaga gctcttgcct acggtggagc agctgccgca gctggcttcg 120

tctcgccgtg gcttgccgtg ctcggtgcgg ccatgctctc cgtctgggcc atcacgctcg 180

ccatcctcct ctgtggcgac agctcagaca acccgagacc aagatacaat cctgccgtta 240

gtgcggctat agcagctggt ggcggaaggg gctgtggtgg cggaggcggt ggtggtggag 300

ggggctgtgg tggcggatgc cgttgtggag ggggct 336

<210> 34953
<211> 71
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-E5

<400> 34953

aagaaaaaaa aaaaaaaaaa aattatataa aaaaaaaaaa aaaaaaaaaa aaaggaggaa 60

aaaattaaaa a 71

<210> 34954
<211> 98
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-H2

<400> 34954

atcattttgt aatggtagtg gccaattgaa ttggagagtg ggttaagttt tcacatgtga 60

tgactatata taaggcatca tatggagttt agaggtgc 98

<210> 34955
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-H9

<400> 34955

cccacgcgtc cgaccaggtg ctgtgactca aaccctgagg tccgtccccc attgactgag 60

atcgtgagga tgctggaaca ggtggagatg gaggttctga ccaccgtccg aaaggctcgg 120

ttccgctgct gcatcgccca accgatgacg ctggactgag tcatccacaa aatccaggaa 180

aataacctgg agtgccgttt actcctatgt atttataata tatattatta gagttgtgct 240

tcagaagcag ggagctgact cctcagtctg ccttctgtct ttgacatgtc accgtagagt 300

acaccagagt ggttgtaata gaggtagctt tttttaaatt gcttgaccaa ataccttct 360

ccgtgtaaaa gtgcctgttc ttgcaaaaaa aaaaaaattt aaaa 404

<210> 34956
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-B2

<400> 34956

gtacggcgcg ggcatcgtcc ccggtgtcat cgtcatccac tcccccagga tcccgtcggg 60

tgaggatatc gccgaccgca gcgacaagat gctggcggtg ctggacacca acatcctctg 120

ggtgaacccc gactgcggcc tcaagacccg caagtacacg gaggtcaagc ccgccctgac 180

caacatggtc tccgccgcta agctcatccg cacccagctc gccagcgcca agtgagcacc 240

tttttttgc ctttttcgtt tccgaggagg gcgtcgtcga tgccaatttg tttccaataa 300

acagggctgt gcccgccgtt ctgttgtact ccgtctgtgg ttaggttagt agttatcttg 360

atctcgccct cacgcggtac ctgttttact actctctgat tggtggtttc tgaggcaagt 420

tgcccgtgta cttgtatcgt aaaaa 445

<210> 34957
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-C4

<400> 34957

cggacgcgtg ggaaaatgca tactctgaat ttcaatgatt tccatactga aaagttcaag 60

ttgaatgaag aagaatggca cttcttagag gtcgattttg atgaagattg atcattgaag 120

gtaactgtaa gagttgactg ccatggtttg tgacagggtt gccatggttt gctgcaccgc 180

cggcctacta gttgggggtt catttgcgat ggcagcatag acagacgggc ggccattttt 240

cttccatttt ggagtaatag tccaagcctg aactgtgaca ttcgtgcatg cttatacgtg 300

aaagtgtacc tgagagcaga ttatacgtga aagtgcatca gcgttgcata tgcaaaaaaa 360

aaaattgtta tatatattat aaataatat 389

<210> 34958
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D11

<400> 34958

aaaacccggc ccgacccact cgtccgcccg cgcgtccggc taatcgcacg tttgatacgc 60

gcatagggtc gaaagactaa tgtagggttc tatcagctga tggcgggcga agtttacctc 120

aagatagctg gagcccacac aagttctatc gggtaaagcc aatcattata ggcatcgagc 180

gcgcatcgcc ctcaacctat tctcaaacct caaataggtc ggacggctcg tctagcttgg 240

tgagccctac cacggaatcg agatgctact agtacgccat tttt 284

<210> 34959
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D6

<400> 34959

cccacgcatc ctctgactcg tggcattatt taaaaaaaaa aaaaaaaaaa aaaaaaggag 60

aaaatattaa 70

<210> 34960
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E7

<400> 34960

tagctctagg ctctagctag ccgcgctact tcttcgtgta gccatcaacc ttctcatcgc 60

caccaatggc cactgcggag gtccagaccc cgaccgtcgt ggcggccgag gaagcgcccg 120

tggtggagac cccgccgccg gccgtcgtgc ccgaggagtc tgcccccgcc gaggccgagg 180

ccgaggccga ggctgctgct cctgctgatc ccgaggagct tcccgcggcc gagcagcagg 240

cagccgccga ggcggaggcc gcggctcctg ctggtgccga ggagcccgtc gcggccgaac 300

cggccgccta tgctgaggct gctgctcctg ctggtcccga tgagactcct gcggtcgagc 360

aggaggcagc cgtcgaggag gaggctgctg ctgctcctcc tgctggtgcc taggagc 417

<210> 34961
<211> 223
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-061-Q1-K1-G12

<400> 34961

cagaccaaac aaancgggcg ggctaactcc acagccggcg gggcaggcgc cgcagcnacc 60

nccnctacgg ctcgccgggc acaggcaagn ccacgnncgc ggcggccatg gccagngccc 120

taggctacga cgttgacctg tctcgcaccg atgccgccgc cgacgacctc cgcgcgctgc 180

tcctgcacac caccccgcgc tcgctcgtcc ttgtcgagga cct 223

<210> 34962
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G4

<400> 34962

cccacgcatc cgcaagatcc tccaaccttt tattcccgaa caaagctaca accagaaagg 60

agggttttaa aaacagccgg cgcggcaaaa gaacgccagc gaacaaaccc aacaaggatc 120

accagatcaa ccaccttaac agcacccacc tactcaccat tccagacttc tacaccagtg 180

cctacgcaaa gacctacatc cataacgatc attctaaaga ctatactcac caaagcaaca 240

tgctaccact aaacggccaa gctcacccag acaactatcg gacatccgag acggaaccaa 300

tgctcgctca aaccatttcg gaatcatgaa tatacatgat ttttacagac attaa 355

<210> 34963
<211> 63
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H6

<400> 34963

aaaaaaaaaa aaataattaa aaaaatttat aaaaaaaaaa aaaaaaaaaa aaaaaaaaag 60

gga 63

<210> 34964
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-B12

<400> 34964

aagaaaagaa acccattaaa aaaaaattta attataaaac aaaaaaaaaa aaaaaaaaag 60

caagatcaaa aaaaaaaaaa ggcagccaaa caacaaaaaa aaaaaaacaa aaaaaaaaca 120

aaaaaaaaat taaactagac cgccatttaa aaacaccatc tactgcaaaa accctctcaa 180

<210> 34965
<211> 87
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-H10

<400> 34965

cccacgcgtc cgccctacgc gtccgaataa aataaaaaaa aaaaaaaaaa aaaaaaaaga 60

gaaggttaaa aaaaaaaaga gtgcaag 87

<210> 34966
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C4

<400> 34966

catcccgtcg catcccatcc cactaccacc tatcttttcg tccgccgatt cgatccggtt 60

gttccaaccc aggggcagtg atggcgacga agaggagcgt gggcaccctc ggcgaggcgg 120

atctgaaggg gaagaaggtg ttcgtgcgcg ccgacctcaa cgtcccgctc gacgatgccc 180

agaagatcac cgacgacacc cgcatacgcg cctccgtccc caccatcaag ttcctcctcg 240

agaagggcgc caaggtcatc ctcgccagcc acctgggtcg tccaaaaggt gtcaccccaa 300

agtacagctt gaagcctctt gttccacgct tgtctgagct ccttggagtt gagtcgtgat 360

ggccaatgat tgcattggtg aagaagttga gaagttggct gccgctttgc cagaaggtgg 420

agttctgctc ctagagaat 439

<210> 34967
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E10

<400> 34967

cggacgcgtg ggcggacgcg tgggcacata tgaaacggtg gagcgtgcta tcgaacacag 60

ggtggaggcc aaagccaaga tcttcgggca agaggtgaac attggtgcta aggacaacgg 120

cagcccaccg gtctacaaaa tcaggccgag cttggtcgcc gagctgtaca gctacagaat 180

catgccgcta accaaggagg ttgaggtcgc gtacttgctt aagaggctgg attgagtgtg 240

tttacgtagc tgtaaaactg ccagatccga actcctggta ttaaaccata acatcggtaa 300

gtacccattt ctgtgaagag gatgatccga actcctgtca ttaaaccaga acatcagtaa 360

gtacccagtt ttggggaaag gatggaaaat ataccatgtg tggcaagcaa catgcataat 420

atcatc 426

<210> 34968
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-D11

<400> 34968

cccacgcgtc cgggagtgtt tgttttcgtt aagtttgcag ctggcactga ggcgattgcc 60

aagaagctag ctgagcttac aaccacgaag ggtgtcacta ccatcatcgg cggcggcgac 120

tctgttgctg ctgtcgagaa ggctgggctg gccgacaaga tgagccacat ttcgaccggc 180

ggcggtgcga gcttggaact cttggaaggc aagactctac ctggtgtcct tgccctcgat 240

gacgcctaga tccgctgctg ctgctgctac tcaggttctg ccagctttgc gtgtcatctt 300

gtttcggacc ttggtgtagc actgcaaggc taaggtttac tcctccgcac atggactttt 360

ggggataggc ttgccaccgt gttttgctag atgagtcgtg gaataagctt ttacttnctc 420

gctgctgtgg gtgaag 436

<210> 34969
<211> 369
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-E11

<400> 34969

cacatgttgt gggttggtga gcgcactcgt taactcgatg gagcgcatgt tgaattcctt 60

ggtggtgtgg ccaatcctct tggcataaag gtgagcgaca aaatgaaccc cagtgacttg 120

gtgaagctga ttgagattct gaacccttca aacaaacctg gaaggatcac cataattaca 180

aggatggggg cagagaacat gagagtgaag ttgcctcatc ttatccgtgc tgttcgcaat 240

gctggattaa ttgtcacatg gattactgat cctatgcatg gaaacaccat caaggcccct 300

tgtggccctg agactcgtnc atttgactca attctggctg aagtgcgcgc attcttcgat 360

gtgcatgat 369

<210> 34970
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E2

<400> 34970

cccacgcgtt cgcccacgcg tccgcccacg cgtccgccca cgcgtccggc aaggtgatag 60

gtaccgtgaa ttggcccata gggtggatga tgctcttggg ttcatgactg catcggggct 120

tacagtcgac cacccgataa tgacgactac tgacttctgg acctcgcacg agtgccttct 180

cttaccctac gagcaggctc ttacccgtga ggattccacc agtggccttt tctatgattg 240

ttcggcccac atgttgtggg ttggtgagcg cactcgacaa ctcgatggag ctcatgttga 300

attcctccgt ggtgttgcca accctctggg cataaaggtg agcgacaaaa tgaaccccag 360

tgagttggtg aagctgattg atattctgaa cccttcaaac aaacc 405

<210> 34971
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D6

<400> 34971

tcgcccacgc gtacgcccac gcgtacgccc acgcgtccgt ccacgcgtcc ggcaaggtga 60

taagtaccgg gaattggccc atacggtgga tgatgctctt gggttcatga ctgcatcggg 120

gcttacaggc gaacaaccgg ttatgaccac tactgacttc tggaccttgg accaatggct 180

tttcttaccc tacgagcagg ctcttacccg tgaggattcc accagtggcc ttttctatga 240

atggtcgggc cacaatgt 258

<210> 34972
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-A5

<400> 34972

cgcctgcttc ggcgcggcct tcattatgct tcacccgacc aagtacgccg ccatgctcgc 60

cgagaagatg cagaagtacg gcgccacagg gtggctcgtc aacaccggct ggtctggcgg 120

caggtacggt gtgggcaaga ggatccggct tccctacacc aggaagatca tcgacgccat 180

ccactccggc gagcttctca ccgccaacta ccagaagacc gaggtctttg gcctggagat 240

cccgactgag atcaagggcg tgccgtcgga aatcctcgac ccaatcaaca cctggacgga 300

caaggccgcg tacaaggaga cgctcctgag gcttgccggg ctcttcaaga agaacttcga 360

ggtgttcgcc agctacaaga tcggngacga cagcaacctg accgacgaga tcctcgccgc 420

aggccccaac ttctgaacta a 441

<210> 34973
<211> 333

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-C10

<400> 34973

cccacgcgtc cgcccacgcg tccgtttgtt tccttcatgt cagagaggga tggtatcctt 60

tcatcgttgg ctcggcgtgc aaaggctttg gaagaagcat tcaacagttt agaaggaatt 120

acatgcaaca aagccgaagg tgcaatgtat ctgttcccac gccttcattt accccagaag 180

gcaattggag ctgcccaagc agtcggcact gcgccagatg catactacgc aaaacgccta 240

ctggaagcca ctggaatcgt cgtcgtcccc ggttctgggt ttggacaggt ccctggaacg 300

tggcacttca ggtgcacgat actgccgcag gag 333

<210> 34974
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C9

<400> 34974

cggacgcgtg ggagaagttg tgaactttgc atcagcatga ggtctggagt ctagacacag 60

cgtggcaaac tgaggtttaa tcatcttagc aactacggta cgtgaccctg agcgcgtgat 120

tgttgcgaaa caacgaccac ctcggtctac accttaaagg tttgcgcgac atggcttttc 180

atagtgctca attggatcta tcccctgagc ataggagaaa agtatcaatt tgtacagtgg 240

atccaagtat tctataaagc atgcatcctc caatttccca caagcgagaa tggcatgata 300

tgatggatga aatggctgtt gcggtcaatt gtctttcaag gatcaattgt ctttcaagaa 360

ccacactttg tattggtttg tgtgcagttc aagctctac 399

<210> 34975
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F2

<400> 34975

ggatgccggt cgtttctctg ctgcttggct tctttacaag gctcaagagg agctcattaa 60

tgtcgctaag ctgtatgggg ttaagctaac catgttccac ggacgaggcg gaactgtggg 120

aagaggtggg ggccctaccc atcttgctat actgtcacag cctccagaaa ccatccatgg 180

atcacttagg gtaaccgttc aaggcgaagt gattgagcaa tctttcggag aggagcattt 240

gtgctttagg acactgcagc gtttcacggc tgcgaccctt gaacatggta tgcacccttc 300

aatttcgccg aaaccagaat ggcgtgcttt gatggatgag atggctatcg tcgccacaaa 360

ggaataccgg tcaatcgta 379

<210> 34976
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-G3

<400> 34976

cccacgcgtc cgatttgtat cgcatgaatt aactcagagc atctcaatgt taaaactgta 60

aaggggcaga cctggtgcca gaggctccca catgagtggg ttctagggaa gggataatcc 120

gaagcaagcc ttccccctgc aaatgcagag atgcggcttt gaacccgtga cctggtgact 180

aagtgagaca cctctcacca ctgcaacagg cctgtccttc ctcatcgnta aaactgagca 240

tattaattct tcttcttaag caatatggga gctaattgct gcattgctgc aaaggagagg 300

acacagncgt gcattactcc tatagaagta tcggcataca ggaatg 346

<210> 34977
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-D6

<400> 34977

attcagcgga atgtttaccc ttgctgtttt tatgggtttg cagtttcctg ttggacaaac 60

taatattgat gggatacttc accttcggga gaacgaattg aaacgacatg ctggggagaa 120

atctacggca atagaagcat attgtgccta tgttgctgaa gggttcgaaa acctgctgga 180

ctggaatgat gttatgaagt tccaagcgaa gaatggatcc ttgtttaact ctccttctgc 240

aactgctgcc gctttggtcg ccaactatga cgacaaagcg ctacagtatc taaatttgct 300

tgtcacacaa tttggcagtg cagtaccaac agtgttccca caaaatattc actatcagct 360

ttcaatggtg gacacgctcg aaagtgttgg aatatcacgg catttttctg tggagaaaaa 420

ggctgtcctg gacatgatat a 441

<210> 34978
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A1

<400> 34978

gtcgtcctcc tagctcctct actcgccagt cgccatgggc aagattaaga tcggaatcaa 60

cggcttcgga aggatcggca ggctcgtggc cagggtcgcc ctccagagcg aggatgtcga 120

gctcgtcgcc gtcaacgacc ccttcatcac cacggactac atgacctaca tgttcaagta 180

cgacaccgtc cacggccact ggaagcacag cgacatcaca ctcaaggact ccaagaccct 240

tctcttcggt gacaagccgg tcaccgtctt tggcatcagg aaccctgagg aaatcccgtg 300

gggtgaggct ggcgctgagt atgtcgtgga gtccaccggc gtcttcactg a 351

<210> 34979
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F9

<400> 34979

ataggtttga cttgtttggg atttaaactc tccctatccc actcaatcca catggattga 60

gagctgaccg aacaagccca cacatgtcta gttggttcaa ctgtaccatt actagcaggt 120

gatggaccat tgggtttatg acaaatggtg acaaatatca tatacacgct ctcgcgctcg 180

aaggtcagat catttttgtt gatcttatct agcgaagtga tggcttatat gttcaggatc 240

atgagctcgt tgagatgtat tgagaggtct ctgaatgctt aagttcagac aa 292

<210> 34980
<211> 436
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F9

<400> 34980

ggttctccca gcagaattgt taacgttaat tcaatcatgc acagtgtagg ttttgttgat 60

gctgaagatt tgaacttgag aaaacataaa tatagaagtt ggttggcgta ttcaaatagc 120

aagttggcac aggtaaaatt tagtagcatg cttcataaga gaattcctgc agaagctggc 180

atcagcataa tttgtgcttc tcctggaatt gtcgacacga atgttacaag agaccttcct 240

aagattgttg tagctgcata ccattttctt ccctacttca tattcgatgg tcaagaaggt 300

tctaggagtg cactgtttgc agcatgtgac ccccaagttc cagagtactg tgagatgctc 360

aagtcggaag actggccagt ctgtgcttgc attaactacg actgtaatcc gatgaacgcg 420

tctgaagaag cgcaca 436

<210> 34981
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-G9

<400> 34981

agccaagtcg tcgcctcccc gacccaacgt tttgaccccc ttgcccgtcc gcgagcgctg 60

cagcacctgg gatcccgccc caatggcaac agcgtgtccg ccgctctcgc tgccgtccac 120

ctccctcttc cgcggcaggt ccgcccgcgc cgggcccaga cgcaggcagc tcacggccgt 180

ccgctgcagc gccgtcggag aggcggtagt ggaggaggcc tcgcccggga cggcggaaga 240

gccgctgctg gtgagcgcaa tcagagggag gaaggtcgag aggccacccg tctggctcat 300

gaggcaagcc gggaggtaca tgaagagcta ccaattgctc tgcgagcggt atccttcgtt 360

ccgtgaaaga tcagaaaatg tcgacctagt tgttgagatc tctttgc 407

<210> 34982
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E6

<400> 34982

cggacgcgtg ggctgctgaa ttggaagatt ggcttggcga tcttaaccca cactcgaaag 60

aggtgataaa ggatgcttat gctgtaccat cacttgccac tgcggttctg ggtgacaagt 120

tccagtttga gcggcttggt tacttcgccg tggatactga ctccacacct gagaaactcg 180

tgttcaacag aactgttacc ctccgtgatt cgttcgggaa agctggaccc aagtgactgt 240

tcagtgtaat ttagggaggg cgctggtttt gatcggttgc agaagcgcac ctgaactata 300

caagttgtga agaaaatggt cgtctaatac agaacagttt aaagggcctt actctttata 360

aaatttaggg ttttttaaaa 380

<210> 34983
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E9

<400> 34983

gactgttata caatatgtcc tcacacaata tctaattcga cgttgaaaaa gacgtcgggg 60

agtaatactt attcaaaaga gcaatgtatc ttgaacaaga acgagttcaa aatgaaaaac 120

tcgttgttga ggttaggcaa caagacgtcc aactgcataa gcaaaggcat gaggatagga 180

ttatgaccat ggatctgact gtactgccag aagaacaaaa gaaatactac ttatctttac 240

tgtctaagat catgagccaa ctacctagtg tttgacatat gtgtgccatt ttcaaagcac 300

ttcaatatgt ttctcgtgtt catgtcagtg tttcacatca tgttttgtcc aaacaggcgt 360

aagtggtttt atctcaaata gtttgtgtca ttgcttccat ggtatctatt gttttaatat 420

ctgttaggcg tccatgtttg tcaaatcata ggtgtcattg atac 464

<210> 34984
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F11

<400> 34984

cccgggtacg actgacgcgg ccccctcgcc ttccttgtgg accccgtgca tgttatcggc 60

agcgatttct taaacgcgca ccaactcttc ttcgttgtgt tcgacaccga ctggctcaag 120

ggctccactc tcgtcaccaa tggcgtgata actgccgggt ctgacgagtg ggcgatctac 180

cgcggtacct gtgtgcttgc catggcgagg cgcgtcataa ggagaaggta tctcttcgac 240

agggccggcg ggaacactga tgatctcaac atggatgtct tctgcctgcc gtctggctca 300

caatcacagc tgcaagataa gatgcacgtg catctgcagg ggcaaggctc tagcgtcacc 360

aagattggac tatggagtgg accgctaggg tctgcacagg acatcacggc agatctgcca 420

ccgcagcgtc ttcacagcgt caccgttcgt gctggcgttg 460

<210> 34985
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F12

<400> 34985

actcgtccgc acggacacac atacaactgg ttcctaaatc caactatctg tactatcaac 60

cacctggctc gagcctttgc acgcatacat catgtctgat gagaagcacc accacttctt 120

caaccaccac aataaacacc actatcaccc ctcctgctaa tacggctact ccgataccga 180

ggtgattacc gacaccgact aaggccagta ccagaggtac atgaatgtgg agaacgatca 240

caatcacaag catcacctcg gccaggccgt cgccatcgtc gtccacgcct tcgcactcta 300

ctagaagcac gaggcgaata aggatcccct acactcgcac aggcacaaga tcactga 357

<210> 34986
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F5

<400> 34986

ggtgcattca aatctgctga tttgcatacc gagctcttac cgagatgaat gggaaaagtt 60

tttttagcaa gccccttttat gtatctcttg cacagtgtaa agatgactga aagttaaagc 120

tacaggcaca gttttcacaa atgcgtcctg ttgcaatggc accttcagta tgtactctca 180

tgcccatgtt tccacctagt gttcctggag ttggtcagca gttgttgtat ggacagccac 240

ctccagcctt catcaaccct caggctggat atgctttcca gcaacttatg atgcctggta 300

tgaagcctgt tggttcaatg ctcaacttta tgatgcctat tgt 343

<210> 34987
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F6

<400> 34987

aggaaaagga aattcctctc atcatcatca gaccacgacc tccctgccga gctgcctcgc 60

tctccgttgg tgatggcatc tcagagctcc aagaccgcgg acaccgccgt gccttcgacg 120

gaggttgcag ccaccggaga ggcggctccg ggcgcggctt cttcaacacc ggcacaaaac 180

cctaacgctg ctgcaaccgc agtggccggg gccacggatc tagagaagaa gatgcgccgc 240

gcggagcggt ttgggatgcc agtactgatg tcagaggagg aaaagcgcag cagtcgcgcc 300

gagagatttg ggactggctc ttcaagtgta aaggaggaag agaagaagaa gtccagggct 360

gagaggttt 369

<210> 34988
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F7

<400> 34988

ctgccaagga ggctgccagc tttaccttcc aggtcatcat catgaaccac cctgggcaga 60

ttggctacgg ctatgcccca gtgctggact gccacacctg ccacatcgct gtcaagtttg 120

ctgagctcat taccaagatc gacaggcggt ctggcaagga gcttgagaag gagccaaagt 180

tcctgaagaa cggtgatgct ggtatggtga agatgatacc caccaagccc atggtggtgg 240

agacattctc agcgtatcct ccccttggta ggtttgctgt ccgtgacatg aggcagacgg 300

ttgctgttgg agttatcaag agtgtggaga agaaagaccc aaccggcgct caggtgacca 360

atgctgctgc 370

<210> 34989

<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F9

<400> 34989

ccaacgcttt cttcaactcg tacactagct taacttattc atgcactcac atctagggtg 60

cggcacttta aacatctaac ccacaacttc actattgata accaacatca atactccaac 120

atttcactac atctatacgc atcataccta tctaactgca gacatagcat caactttcta 180

cctgaaccat atcatc 196

<210> 34990
<211> 54
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G1

<400> 34990

gcgacacgaa cgaccacgca gaataaatta caatcaaaac agcagacgct agac 54

<210> 34991
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G11

<400> 34991

cccaggcgtc cggttattaa gctatgggct ttataccttg catatggctg tgcaaaatga 60

ggttctgcac tgtagactgt actggtcacg tggtgaagtt tgaaataaga gatcggatga 120

gtaacgttgc tagagatagc cttactgacg ataagtcatt cttatgtctt gttttcttct 180

gcgcaaggac gtattggcca gaaatgtttc atagaccggg aatacagttt acaggagaaa 240

gcatgaatgc gttatgcatc catgcgccgt tctcctgact agtggactga aaccgaatga 300

gttttcagtg gcatagaaat accaaggcca tattattca 339

<210> 34992
<211> 483
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G12

<400> 34992

acccactcgt ccgccagttc ttgcgagcac tttggtcttg tgtacttctc tctcgtatcg 60

ctgttggggg gttgcgtaat ttcagcaaag gactgatgca gtgctgatgt gccttccgct 120

ggctgctaac gcttatgagg cagcttccac caatcagtgc accctcatct tcaaaggctg 180

ttccaacagc atggaaaaag tctacgccat cagcagtcct agtcagaaaa gaaaatcaca 240

gcatgatctg agtgatccaa agttgctacc acttaaatgc aagtttcgca aactgttata 300

ttgccaggat gatgagtctg caaccacaga aagtttatga tatgatggta ttttcatgaa 360

caagactctt gggacggaca tggtcagcat acctgaagaa atggactctc gtgagaacac 420

tataagcctg ttttgtggat gcatagaagt tgactcaaaa aatggaattc acgaacaatc 480

ttt 483

<210> 34993
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G2

<400> 34993

gcgctattat cgatgttgct gacacgatat cgttgttcaa caagctgcaa gagctatcga 60

tgtgcaagct ttgccctgat atttccagta atcacctacc aagccatgca atgagctctg 120

tgatattggc tatggcatca aatctggcac gtgccgatct tgaagaccgt agtccaagca 180

cactttagca caggagtatg acgtccattt tgctggtgga ttgtgaccat attagcttgt 240

ggcctactga caattcagat gatcgagttt gagaaagatt gaccatgtca cattcattgt 300

actctgcttg ctcgcttagt gcatttggtt cacgaatgca tgcatcatgc tgaacgctgt 360

ggtttgaacg aa 372

<210> 34994
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G4

<400> 34994

cggacgcttg agcttcctcg cccgatttat atctacatct tcccgagcaa atactagggt 60

aaccgctacc ttttcagacc acctccaagg ctcttaatgt atcttaacac tctcaccaat 120

caaattttca tgtctgatct cgacattcat atcccaacta ccttcaatcc cttcgcttag 180

accaatgctc tggactctgg tgcgtcatca gggtcaaagg actacgtaca cgttcgcatc 240

cagcagctta atgttctcaa gagccttacc accgtccatt gattgaataa taagttcatc 300

tacagcaaga tcctcaaaga tctcaa 326

<210> 34995
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G5

<400> 34995

cccacgcgtg cgccgacgcg tccgcccacg ctctggacta gggaaagcta aaggagaacg 60

tgagcaacgc ggtgctgttc gaccaggcta cctacgacaa gctgctctct atcgtgccca 120

agtacaagca gatcaccccc tccatcctat ccagagcgcc tcaagatcaa tggctccctg 180

gctcggaagg ctatcaagga cctgatggcg cgtggcctca tccggttggt ctctgttcac 240

tcaagccagc agatctacac cagggcaaca aatacctaag gatggtattc ccttgatcgc 300

cctctctgga ggagctcgtc ttctttagaa cagatgccat ctctgtcaag agcttgctaa 360

tgct 364

<210> 34996
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G7

<400> 34996

cacgcgtccg gtggttcgag acggtggact ctttgagttt cttccgggcg aagaactacg 60

acggccccgg cgagttctac tgggcgccga tgctggccga gtccaacttc gacgacgccg 120

tagtgcactc cgccgacgac cgtctcatcc gcggcgcgcc catggacagg cactccagct 180

tctggaaggg cgccgacgtc ctcgtcttta actcctacct ctggtgggtc gccggggaca 240

aaatccagat cctgaggggc gccgacaacg acccgagcaa ggacatcgtg gagattaagt 300

cggatgaggc ctaccggctg gtgctgcacc aagtggtccg gtggctggag cgcaacgtgg 360

accccggcaa gtcgcgggtg ttct 384

<210> 34997
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G8

<400> 34997

aggaggcgcc gggatcattc ttcagtttcg gaccttcgcc tccactccct ggttgatgga 60

gtggtttgga tatgtggcgg tggcagcaga ctctcctccg ccggctcccg ccgcctatgg 120

cggtggcaca ggctccggcg tcctgggcgg ccgaccgtct ggtatgctac tacgggtcta 180

cgccggaggc gagggaggga aaggcggcgc ctttgcaggc gcggggcatg gtctacaggt 240

tccagatgcg cgccaagggc ggcgacggcg gcaatggctg cgtcagcctc cggcgctcta 300

agtccaaccg ccacggcatg cctgacggtg gtaatggacg gaagggtggt gatgtaattc 360

ttgagtgctc acgtt 375

<210> 34998
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E8

<400> 34998

tgataataat aataataata ttatcatttt caacaatcgg cagctcccct caggcaacga 60

ccacttcttc accatgagca cctacgaccc tctcacacca cactccccaa ccgccagctt 120

ctacccactg tccatcacca acttccccac ggcaatgcaa cagggctcct actgctactt 180

tccgctccga caactaccac ctctgcaact acggcagcgg cggcttcaac gtggtctcgg 240

acgccgccac ggcgtacagc gccccctaca cagtcagcat cgtcaacatt tacaacttca 300

gcaacaacaa cggcacctgc acc 323

<210> 34999
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G9

<400> 34999

gccactcgtt cacaaaccca ctgacttcat taactcctcc aaacactgaa ccaactaggc 60

aggcctaatt acaaatgctc ctaccactaa cataaaggca cctacaactc ctaaaaagga 120

cgcaacccca aacaatgctg actctgctac cctcccagac accaaactct attccaccaa 180

cgccaataac tactctccct gccttcacac tagccaaaac ccccccctcaa taccacctat 240

acaaacccct attccatcca tactgatcca atcacaatac cctcagtagc tctatattcg 300

cccatagctc catcattaat ctcaacgcta cctctacacc tgcaaaaact 350

<210> 35000
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D10

<400> 35000

ctcgtgggca tcatttgtta aagaggtctt ccctcaaatt gcagcggatg aacagctcta 60

tgcaatggtc cttcctggtt tttggatgga tgttggtcag ccaagagact acattactgg 120

attgcgtctt tatctagact cgcttaggaa gaaatcggct gccaggctag ctgctggagc 180

acatgttgtt ggcaacgtgc tggtgcatga gagcgccaag attggagaag gttgcctgat 240

cggtcctgat gtcgcaattg gacctggatg tgtcgtggaa gatggcgtga ggctttcccg 300

ctgcactgtc atgcgtggtg tgcgtatcaa gaagcatgcc tgcatctcga acagcattat 360

cgggtggcac tcaactgttg gacaatgggc acggatagag aatatgacca tcctgggcga 420

agatgttcat gtgtgtgacg aggt 444

<210> 35001
<211> 426
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D11

<400> 35001

cgcacgcgtt ctccgactcg tgcgcttact tgtgatccca tacgctcaga gacactcggc 60

tgcgttcttt cctatctccg cgactcaaag cttcttccat ttcctaccgc cacccctgca 120

gctgcacccc attccgtcta caccatgacg tagtgcatct agatccacat ctgccaagcc 180

actatccatg tctcaaacgc gtgctgcgag ctctactgcc tcaagcatag cattcatgct 240

gatggtcaca tgcccagaga caacaccatt gaggctggtc atgatgcttt caacaccttc 300

ttcagtgata ctgatgctgg gaagcacgtc actcgtactg tatttgttga ccttgaacca 360

actgtcatcg attacgtgag gactgtcacc taccgacagc tcttccaccc tgagcacttt 420

atcaat 426

<210> 35002
<211> 472
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-010-Q1-K1-D12

<400> 35002

gaccgacgcg tccgcggagg cgtggggtcc tcggacaagt gccttattta cgcgctgaag 60

ctcggcgcgt gcgtngcagt ctcggtaacg aggtgcacat cggcgacgcc aacgtcaagt 120

gctgcccgct cgtgaagggc atcgccgggc tctccgcggc ggcgtgcctg tgcaccgcca 180

tcaaggccaa ggtgctggac atctccgtct acgtgcccat cgcgctggag gtgctcgtca 240

actgcggctg cgaggtcccg ccaggctaca aatgcactta aacgactcca ttccatttca 300

tcccatctca ccatgcgtgc acagcgaggt ctccttttgc cctcccgaat gcaaagtttg 360

aaaggctcgt cgacggattt gggtctcctt ttgcccaccc gaatgcaaag tttcgaaagg 420

ctcgtcgacg gattgtgctc ttcggctact gcattcttcc ttatttcatt tg 472

<210> 35003
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D3

<400> 35003

cggacgcgtg cggtcttcgc ttacacttac cactttcccc gcctgcttcc tgcagtcgcg 60

tacgggtatc catgcgccca cggagaagat ggcctactct actccaatct gccttagctc 120

aagctctggt cgaggaggca gaggccggtg ccagctggcg gactgagagg taggtagcag 180

cttgcggttg cggaagggaa gctgc 205

<210> 35004
<211> 222
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-010-Q1-K1-D4

<400> 35004

atgagcatgt gatcgctcac tcttgcatct cgattattct ntagctgctc tagctctggc 60

ctctgtccct atctaataac tagccactct gtcgtgtact catcaacctt ctgatcgtca 120

accatggcca ctgcctagat ccataccccc accctcgtgg cgacctaaga agcaccagta 180

atgtagaccc cagctccgcc cgccgtcttg cccgacgagg ct 222

<210> 35005
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D5

<400> 35005

gggcctcctt tcccacgact tttgagctct ctgcgtgtgg cgcgcggcat cgtggcgagt 60

gcgaacttga gcagcaaggg gtcgttcgag gttcccaatg tggaggtcag gttcatcaag 120

ctcttcatcg acggcaagtt cgtcgacgcc gtctacggca agacgttcga gaccctagga 180

ccctcgcacc ggcgaggtga tcgccagcat cgcggaggga ggcaaggcct acgtctacct 240

cgccgtcaag gccgaccggg aggccttcga caacgggccc tggcccatta tgactgtata 300

ctagcgtggt ccgatcctgc acaggttcgc ggacctgatc gacgagcacg tggaggagct 360

ggcggcgctt gacac 375

<210> 35006
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D7

<400> 35006

agacaggtca ctagcaccac tttcaaatct ttgcgttgcg cgatacacca ctggcagtgc 60

actaatttca aagaaagaat caaacgatat tattgctagt ctttcgaaca aaaaaagaag 120

gaatcaaaag atatgtatat aaaaaacaca agttgcaaga gttgtctttt aacagcatat 180

atatgatgct ctatatatga tcaacgggag agagagaaaa ctaacaatcc ttcctggttt 240

tgaaattctg aaccaggtgc ctggatgaag gagctgacga gttctttcta aaacctgtgc 300

ggctatcaga catgaacaag ctcaagcccc acatactgaa aagcagatgc aaccaggaac 360

agcaccagca aagtgacaat tgcattggct aacgcatgaa ccccacaatc agc 413

<210> 35007
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D8

<400> 35007

aggacgcgta cgaccacgcg ttcgcttttg gtaagttgct cgatacaccg gtggcaacgt 60

actattttca aagatagaag cccacgacat gatcgctcgt ctttcgaaca aagaatgatg 120

gaatcaaaag atatgtatat aaaatacaca agttgcaaga gttgtctttt aacagcatat 180

atatgatgct ctatatatga tcaacgggag agagagaaaa ctaacaatcc ttcctggttt 240

tgaaattctg aaccaggtgc ctggaggaag gagctgacga gttcttgcta aaacctgggc 300

ggctatcaga catgaacaag ctcaagcccc acatactgaa aagcagatgc aaccaggaac 360

agcaccagca aagtgaca 378

<210> 35008
<211> 460
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-010-Q1-K1-D9

<400> 35008

cccacgcgtg cggcaattcc atcgctactg tataatccac tacaatctga agtccaggag 60

tgtcttgcta gacacgaatg gtgagcccag ggttggtgat tatggtcttg taaacctgct 120

gccgatgctg gatcgctatg tgctcagcag taagatccat agcgtgctga gatacatggc 180

acctgatttc acttgcacaa ctgtcaatgt cacggataat tgcgacatat acagcttcgg 240

agtgctagtc cttgagattt tgtcaggcag aaggcccgta gaatatctgc aagatagtgt 300

ggctgtgctt tctgatcttg tcactgatgc actcgatgat gacaggctgg aggactgcat 360

ggatccacgg ctactaggtg agttctcgac ggtggatgcc acactgatca tcaagctggg 420

cctggtctgt gcatctgang tgccttctca acgaccggac 460

<210> 35009
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E1

<400> 35009

gacaggccga cacctctata gcactgctgc gaattctgca cacgatctaa ccatatgggc 60

ataggtaact tttcaacaga taaacaatat tgcttcctca acaatacaat gtctagaaga 120

atatacacaa tctagaactc ccgatagtta caatcaactg ttctcggcat ttcaaccaca 180

tgaatgtgaa ggatgcacat aatccacttc gtccttttcc taataaaata tctgagactc 240

gctcaagtac ctgggtcaca 260

<210> 35010
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E10

<400> 35010

aatcagagct ctgaggttgc ttacatcagg ccaccaccaa cccctcacgt cggcgtttgc 60

ttcgtcggcg aaggcagaga tggcgtccgt ggccgcggcg gaggtcgcgg cggcggcgct 120

ccggtcggtg ctgtcgcgcg cgcagcatgc ggcggctcgg gcggggcgcg cgccggggtc 180

cgtgcgcgtg gtggcggtga gcaagaccaa gccggtgcct gtcatccggg gcgtctacga 240

cgcgggccac cgctgcttcg gcgagaacta cgtccaggag ctcatcgaca aggcgcctca 300

gcttcctgag gatattgagt ggcacttcat tgggaatctg caaagcaaca aagccagagc 360

cctacttgct ggcgtgccaa accttgatat ggttgagagt gtcgatgatg agaagattgc 420

taaccgtctt gatcgagtgg tagctgac 448

<210> 35011
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E11

<400> 35011

gctggctcca ttagatggca tggttcggct ctacaatcac ctgcgcattg cacagtagga 60

tggtcatctt gcggacaagc tggatctgga catgccggct ctggcttaca tgatgaagga 120

ataccctggg accgaagaag agaagatgcg agctgctgtt ggcaggtttg gcctatcagg 180

aaaggcgcag gtgatgccaa tgaggaatct ttctgatggg caaaggagcc gtgtcatctt 240

tgcatggttg gcatataggc agccgcaact gctactgctc gatgagccga caaatcattt 300

ggacattgag accattgact ccctggcgga ggcactgaat gagtgggatg gtggtttggt 360

cttggtgagc catgatttca ggctgatcaa ccaggttgct caagagattt gggtgtgtga 420

gaatcaggcg gtgacaaggt gggaaagtga tatcatggat tt 462

<210> 35012
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E12

<400> 35012

tcgaatcccc ctgtcccgct aggattcccc ccttctttcc cccaaaaccc cagagcggat 60

aagggcggat gatgttcggc ttcgggcacc acggccacca cggccagaac ccgtcggcgc 120

acggcggcgt gcaccagccc accttcaaga tcttctgcaa ggccgacgag gggtactgcc 180

tcaccgtccg cgacggcaac gtggtgctgg cccccgccaa cccgcgcgac gagcaccagc 240

actggtacaa ggacatgcgc ttcagcaccc aggtcaagga cgaggagggc aaccctgcgt 300

tcgccctggt caacaaggcc actgggctcg ccatcaagca ctccctcggc cagtcccacc 360

cggtgaagct ggtgccgttc aacccggagt accaggacta gtcggtgctg tggacggaga 420

gcggcgacgt gggcaaaggc tttcgctgca tccgcatggt gaacaacat 469

<210> 35013
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E4

<400> 35013

ccgacgcggc cgcttctcct tagaatatga gcattacgag ccacccagca actacttgat 60

caggttcttc agctctctct ctgtccgtcg acacaccaag ctagccatgc aggaggagta 120

tgggtacaac cgtagaagag agagagagag agagagagct aacaccaccc accactgtcc 180

ctagctagct tatttacagg cgttcgtgat caccaacagc ttctcgtgag aaagagtgca 240

acgggccggc cgggcagaag aggtagctgg gagctagaga gaaaaaaagg gtgcaccgag 300

ctacccacgc cagggaggaa gggaggagtg agccatcagt cgacc 345

<210> 35014
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E6

<400> 35014

cggacgcgtg ggcgccctta ttttctatat ttttttttt ttttttgact cacgaaccgt 60

tgttttattt atttccaagt ccaaatttct ttaaagaata acattactat ctgattcact 120

acaacaagcc accagttcca ttccatccca ttctttcaga ctcacactgc acacacaaca 180

tttacaggca ccataacgat taccatgcaa caacatatct tgtccacttc ttaggacaga 240

cttataaagg caccttttca ccttaca 267

<210> 35015
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D1

<400> 35015

cggactcaag tgcttaaaca gtacgctttt cagtttgaaa attaagctct cttgctagag 60

tacatgtatg tttatactat tcaaactcta ctgtattaga cttgcatctg gaattcatta 120

ctccgtatct gctatcaggt tataaggtat aagctgtgac aatcattgat atgaccatta 180

gcatcatgaa tgataacata taggcttctc tgactgcgca tgacaaagta tgcattctat 240

caactttgca tgcgaactga cacagaattg caatggttga tgattgaa 288

<210> 35016
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E7

<400> 35016

ccgacgcgtc cgctccgacg agtcccttct ccacgctatc gacgaggcgc gggaggatgt 60

gccgtctccg gagaagctcg tcgcggcgac cgacgacgac cccgacgacg gtgccgctgc 120

cgggtgcgtg ctctacagcc ccagccccta cgtgaggaag ctcttcacct tcaataacat 180

gaagggcggg cactacaaca ggtccttccc ggtgacccgc cccgacgagt acgcgctctt 240

cttcgccaac tgcgccccgg ggtcgctcgt ctccatgacc gtccgtaccg agatgtacaa 300

cgtcggcgcc gacggctcca aggactacct ccccgtcggg caggcgcctg ttgccgtcat 360

ccacggcgtc ttcgcgctct 380

<210> 35017
<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B12

<400> 35017

ggtcgaccgc acgcgtccgc agggttacag gaaaatcagg ctccgtgctt taattgtgca 60

aggcaggaat gtgctcacaa gctcgggtgc atgaatttta ccaccgataa gctcagatct 120

ctagtaaaga agtggcagac attgattgaa gcccatgttg atgtcaagac aaccgacaac 180

tacatgctgc gtttgttctg cattggtttt accaagaggc gcccaaacca ggtcaagaga 240

acctgctatg ctcaggcatc ccagattcgg cagattcgcc gcaagatggt tgagattatg 300

atcaaccagg cttctacatg tgaccttaaa gaacttgttt ctaagttcat tccggaagtt 360

attggcaaag agattgagaa gtctaccttc agcatcttcc cacttcaaaa cgtcttcatc 420

cgcaaggtga agatactcaa agcccccaag tttgatctcg ggaagttgat ggaggttcat 480

<210> 35018
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B2

<400> 35018

ccgacgcgtg cgcccagcat ccgagatttc tcctttggcc aggtccccat cgccgcgggg 60

ctttgcccac ctatcccccg cccggtagta gcctatacgc cgttgcctag atggagttca 120

tagacttcgt cggtagggtg ctcttcgtcg ccgctttcct cctatacgcc taccaggagt 180

ttaatgaatt cggtgctgat ggtggaccag cagctaaggc ccttcggtcc aaattcaacg 240

tgtttgtcaa aaatgtatct gctcatctgg gagtagctat gccacac 287

<210> 35019
<211> 246
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-010-Q1-K1-B3

<400> 35019

gcgaccgtcg ccaccgtccg cctgncttgg cccgccacta ctccgtggta ctgttaattc 60

cggcgctctc ccactgtgac cggccgctag cgacgacaga gctgctctat tcttaaacaa 120

atggcaccgt ccagtaccca aacctttga acaacctgca cgaaagccgt attgtcaaac 180

tcagtgggta tgagtcaagg gttatcttgc ttctgggact catatataat ctacacttgc 240

caacac 246

<210> 35020
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B5

<400> 35020

ctgatttctg cggccgagaa cttgctttct gaagtaacta aggatgccaa gggggcaggt 60

tatccaaatt actgtaaagt cttgagttca acattaagct caataatggt ctggacagag 120

aaaagacttc tggcatatca tgaaaccttc aatacatgta atatcgagtc tatgcaaggc 180

attgactcca ttggagtgtc agctgcaaga atccttgttg aatatatatc tcacgaatac 240

cgccgtacaa gaaaagaata gactgatgta gcccgaagca tggtatagac atacataacg 300

tcttcactaa ggacagcttt tgctcaaaga atggaagaag cagattcata acggtcatca 360

agaaacccta c 371

<210> 35021
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B6

<400> 35021

agggaacata gcactgaagc ttatcgattg atctgtccgg ccaaaccctc acggccgcgt 60

ccacaatgcc gcgccatctc gcgctgctcc tgcccctgct actgctggcc tcgccagcgg 120

ccacgcgcct ggcgttcgcc ggctgcccgg gctacaagtt cccggcaggg catgcatacc 180

cttcgtgcca ggacctgccg aagctgggcg cgtctctgca ctggactgta cgacgcgttc 240

aagagctccc tgtcagtggc gttcgt 266

<210> 35022
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-010-Q1-K1-B7

<400> 35022

cggtcccaag ccagccattg gttggtatca agccaagcta atcaagttag ctgtanatgc 60

ccgctcccgc tcttcttccc tccgacgaag gcagctgacg acacagcagg ctagcttcgg 120

agttcggagc actcagccat ggccattgcc ggcgctctcc tcctcctgct cggactcctc 180

gcgcgggagg ccgctgccgg cgggtggcag agcgcgcacg ccacgttcta cggcggcggt 240

gacgcgtccg gcacaatggg cggcgcttgc gggtacggca acctgtacag cacggagtac 300

ggcacgagca cggcggcgct gagcacggcg ctgttcaacg actgcgcggc gtgccggtcc 360

tgctacgagc tgcggtgcga caacgacggg cggtggtgcc tgccgggcac cattaccg 418

<210> 35023
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B8

<400> 35023

ccgacgcgtc cggcaaagca tttggaattc tctgcgattt ctctagatct cggctaccgc 60

ccactagttt tggttcctcc tttcgttcga gagagcgatt ctggtggcaa tggcgaagag 120

cgagggtccg gcgatcggga tcgacctcgg caccacctac tcgtgcgtcg gcgtgtggca 180

gcacgaccgg gtggagatta tcgccaacga ccaggggaac cgcaccacgc cgtcctatgt 240

cggcttcacc gacaccgagc ggctcatcgg cgacgctgcc aagaaccagg tcgccatgaa 300

ccccaccaac accgtcttcg atgccaagcg gttgatcggc aagaggttct ctgatccgtc 360

agtgcagagt ga 372

<210> 35024
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B9

<400> 35024

ccgcactgat acaaaacata tgaattcaac gactgcttat cgggcagata actgggatga 60

ggttgctttg gataagatag gcaaccatcc atgttttgat ccaagaaagg atctagtgct 120

tccggcatgg aatgaaccta acccaggggc catatggtta aaactgtggg caaggccaag 180

gaacaaccgt acaacacttt tttatttcaa cggtaatcta tgttcagcat acgaaagagg 240

ccgtccagaa gacacgtata gcatggggat tcggcaaaag ctagcagctg aatttggttc 300

cacaccaaac aagcaaggaa gccttggact gcaacatgcg gccgatgtga cagttaccta 360

tttacgaact gagaaatatt atgaagaact agcaagctct gatttttgtg gtgtcctgcc 420

aggggatggc tggaatggcc gtatggaaga tagcatg 457

<210> 35025
<211> 189
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-010-Q1-K1-C1

<400> 35025

cacccactcg tccgggacac gtcgtgttcg catcactgtt taccatataa caacanggca 60

taaataaata gtaaagtcca acattcccat aagtaaaacc aacaaaaaca actaaacaca 120

caaaaaacta caaaaaaaca aaaaaaaaaa aaatccaaaa aaaataacaa aaacaaaaaa 180

aaagctcca 189

<210> 35026
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C10

<400> 35026

tcatggctgt agctttcttg ccctctttct gtttgtcata tgatgatttc accactcagt 60

aggccttcgt ctaaaaggcc tctctggttc atcgtgttgg ttgcatttgt ctgtgcagta 120

gccattggag cctaccttta tactccacgg cattacacag catgttatct ggtaccatca 180

gaagcctgca attctcggcc tcctccagaa cctgctaggg tatacactga tgatgagatc 240

gctgctcgtg ctatcatgag agacatcatc cgggcacggc cagtgcagtc aaagaatcca 300

aaaattgctt tcatgttctt gacgcccagt tcattgccat ttgagaaact gtgggaaaaa 360

ttcttcatgg gacatgaaga ccgattcacc atatatgtgc atgcatcaag aga 413

<210> 35027
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C11

<400> 35027

cctacttcca cgcatccttt cctactgctt tggtacatct ccaccgcgac cacatgtagg 60

agctctgcta gaactcccgc atgtagacaa tgtactgctc gacgtacgag ctggtcgacg 120

tgcgcgtatt ccccgcacgc gagagcggac tgcacggcag agcctgcgcc gactacatgg 180

tcgtcgccac aagccgctcc gattggcaca ttcgtaacat cgcgcatgcg ctcctctaca 240

agataaacca aaagcagaag gtctctgata gaatattgat gccaagtgta aaacgtcagc 300

aagcgggaaa atgagctgtc attgattctg gaagcataat catccatgca cttgaagaat 360

gggcaagata gta 373

<210> 35028
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C12

<400> 35028

gaccgactcg tccgcccagg cgtgctctga ctcgtgggct catttacttt cgtcttcgta 60

ctcgcctatc ttctcggccg atttcgttcc cccttctgcc attcttctct catttctcac 120

caccgccgcc gctacccccc ttctacaaca ccatgaggga gtgcatctcg atccacatcg 180

gccaggccgg tatccacgtc ggaaacgcgt gctgggagct gtactgcctc gagcatggca 240

ttcaggctga tggtcagatg cccggtgaca agaccattgt gggaggtgat gatgctttca 300

acaccttctt cagtgagact ggcgctggga agcacgttcc ccgtgctgtt tttgttgacc 360

ttgagcccac tgtcatcgat gaagtgaaga ctggcaccta tcgccagctc ttccatcctg 420

agcagctcat c 431

<210> 35029
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C3

<400> 35029

gacccactcg tccgggactc gtccgagcga tcccactccc tttcagtttc tgatcgctca 60

ctcttgcatc tggatcagtc tttatctgct ctagctctag cctctatccc tatctagtat 120

ctagccactc ggtcgagtag tcatcagcct tctgatcgtc acccatggcc actgccgaag 180

tccagaccc 189

<210> 35030
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C5

<400> 35030

cccacgcgtc cggccagatt gtttccttga caggaatgac tacaaggaca acgggttcgt 60

acagatcatc tccaacgccc tcggtatgaa gctcatggac atcctcaaca agctcaaata 120

gatcagtccc ttgttggatt tcatttctag cctacccgat ggtgagagca agtgaacgca 180

tgcgcacttg gaggagacaa cgtcacatga taaggttgtt caaggcgttg atcaagtgga 240

cgtagcggct tatcgacaag catgttttgg tcctgtagag ctactacatg aaagtttttt 300

tcgctcagat acatctccat tttgttctga agctcatatt tgggaataca taagaatcga 360

aaggggaaa 369

<210> 35031
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C7

<400> 35031

gggagatggt caacaagact tttgatatgt taaaccaagt tggtatggtc atatatcaga 60

aaccattgga caatatttgc tatgagaaaa gatctgaaaa cagcccgcca ttgtgcaagg 120

aatctgatga tgcagatgct gcttggaatg taccgttgga agcatgcatg cacaaactgc 180

ctggtggctc aaaagtccga ggatcaaaat ggccagagtt atggccgcaa aggcttgaga 240

agaccccttt ctggattgat ggttccaagg ttggtgtcta tggaaagcct gcaaatgaag 300

attttgaggc agataatgcc cactggaaac gggttgtaag taaatcgtat gtgaatggca 360

tgggaattga ctggtccaaa gtgagaaatg tcatggaca 399

<210> 35032
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C8

<400> 35032

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

gaaaaaaaaa aaaaaaaaaa aaacaaaaac aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aacaaaaaaa aaaaaaaaaa aaccaacccc ccaaaaaaaa 180

cacaaatcaa caaacccaac aaacccaaaa ccaacacctt caaaaagaca ccccaaaaca 240

aaaaacccgc cccctcttta aaaaccaaca taccgaaaaa aaccctgctt caaccaaaaa 300

aaaatacctc aaaaaaaacc cccttaaacc caacaaacaa aaaacaaaaa acccccaccc 360

aaaacccccc ccaaaaaaat acccaaaaaa aaaaacaaaa aacacccccc caccaaacca 420

ccaaaaa 427

<210> 35033
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C9

<400> 35033

aagagaaagg ctgatgagag tctacatagc tgtcatactg tattgtatgg gataaaagga 60

agtaaccatt ttttgaagag aaacatatct caattttccg ggtttgtttg gacagacaat 120

caagaaaagc acaggaccaa aataaaggaa aagcttgaga aatttaacaa ggagaagttg 180

ctagattttt gtgaaattct ggacgttatt gtaaaagtaa ctacaaagaa tgaagaagtt 240

tctgccaagc tcttggaatt tttagagtct ccttgtgtta ccagggatgt tattctcact 300

gataaaaaga aggggaagaa acgcggaagg aaatctaaag taagtcatga ggtaacttct 360

gaaggtgctt ctgcagagaa gaaaaggaaa agagttcaga aacaagcagc tgaagatggt 420

aaagagaatg atgatgggga tgatgctgat cttgctggtt c 461

<210> 35034
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B11

<400> 35034

atcggttaca tgttacaggg atccatttac ttataaacaa acttgtttcg ggcttagggc 60

agatttaccc aaaactgaac ttttgcaaat tacttcaaat tcttccacac cacttgtaga 120

gctccaaata tgaaattttt tcacttttac aagctccaca actttgatat atggacttt 180

cacaaattct caatggattt taaattccac ttttgagact aatttatact ttcaaatgtg 240

actactattt ctccaaacca cctctcaact ttgatccacc actaaaagca aagttactac 300

ttaatcaaag atccaacttc ggtactcaca acttatggcc aaaaaggccc ttatttatgg 360

acttgctttg attatgcacc atttcactct tgggctcaat ttatggtttt gaagtccatc 420

cctctcctta agcgatcctt tcacttgatt tacac 455

<210> 35035
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H1

<400> 35035

cccacgcgtc cgcatcgaat cgtctcactt ttgtctgccc tgctcatact gcttgccctg 60

gccgggtcgt ccacccgcaa cgcacaggag gattccatgg ccaacaacac cgggacgttg 120

gtgggcggca tccaggacgt gccggttagc gagaacgacc ttcacctcca ggagctcgcc 180

cgcttcgccg tcgatgagca caacaagaag gccaatgctc atctggggtt cgagaagctt 240

gtgaaggcca agacacatgt ggttgctgtc acgatgtact atctcact 288

<210> 35036
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H10

<400> 35036

aatcaccggg ccgacccact cgtgcggtca ggcaagaaac aacggagatt tataattctg 60

atgaagctta tgtgtatgac aggcttggca agctatatga caagtacagc gattatgtca 120

cagtctgagg acaaggaacg tttgattgct aagcttcatg atgttgtaga ctgtctctat 180

gaagatggct agcatgaaac taagggcgta tatattgcta aactactaga acttaataaa 240

gttcgtgatg ctattgatgc tcgctataag gaatgtgaga ttagaaattc tgatgttagt 300

caactgatat actgcatcaa tagcttcata gaatctgcac agtctaccga ccagaagttc 360

tgacacatag acatgtcata aaagcgaaag gt 392

<210> 35037
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H11

<400> 35037

caggagcctt tccccacggg ttcaatcatc ctagccaggt ctgggagatc ccggacgtct 60

tgtggtgaag aaaatcacca tgacatccag acagtcttga ccaacggtga cacttcttcc 120

aatggagctg acaattcagg tcccaccaag gatactgagt agctgaactg cagcttgctg 180

catcgctaac cacaaaggcc caagttatta ctttttgcag acctattttc agttctagcc 240

cctcccttcc catttcgatt ttgtttgtta agtcctcccg atctgtattt attaacttgc 300

atgatgcggg tcaccgaaga cttaggctgc tgcagaagtt ttgtctctgg cgggaagcta 360

tatgcaagag ggtggtaccg gttcgttccc cagaatctat gtgcttgtta acctgaaggc 420

cga 423

<210> 35038

<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H2

<400> 35038

tcgagagact tccgcatata atcgacttac ttttgtcttc catgctcata ctgcttgcca 60

gggccgggtc gatcaccctc aacgcacagg aggattgcac ggccaacaac accgggacgt 120

tggtggaccg catacaggaa actccaggca gctagaacga cacttcagct ccaggatctc 180

gcccgtttct ccgtcgagga gcacaacaag aaggacaatg ctcttctggc gttcgagaag 240

cttgtgaagg ccaagacaca agtggttgct gtcacgatgt actatctcac tattgaagtg 300

aaggatggct a 311

<210> 35039
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H3

<400> 35039

ccgtccgacc cactcgtccg atggcgcctg tgtgtcagag agatttgcac ttaatcgtga 60

ggatcagtga tgcgaggggc aacaagtcga gagatcaggc agggcaccat ggggcgcggg 120

aaggtggtgc tgcagcggat cgagaacaag atcagccggc aggtgacctt cgccaagcgc 180

cggaacggcc tgctcaagaa ggcgtacgag ctctccgtcc tctgcgacgc cgaggtcgcg 240

ctcgtcctct tctcccacgc cggccgtctc taccagttct catcctcctc caatctgctt 300

aagactctag agcggtacca gaggtacatc tatgcttcag tcgatgctgc agtgccatct 360

agcgatcaga tg 372

<210> 35040
<211> 128
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H4

<400> 35040

cccgctcttg cgatcttaat catctcactt tggctttcat gtatgctgct atgggtcagg 60

ttacgatcta ttttggccta gctagtccag gcagtacaaa gcgccaaact gctgaagaac 120

atgtgcta 128

<210> 35041
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H5

<400> 35041

gcgctcactc gatgcaaaaa actccatgga ttttattgct gctatgcttc gctggtggtc 60

tctgcttgag aaatttagct gcagtgcatc aaagctgcac ctgaagcctc ggaggttcaa 120

aacatttgta gaagcattgg gaaaacaact gctgaaggac agaaataagt ccaggaaaaa 180

gcattcacga gtggatatgt gcatatcttc tccatctcca gttatcagca aggctcctgg 240

ggatgagact cctcctgtaa agttcttgtc aatagattcc caaaatggta gcagagtagc 300

atctcctaaa gggacaattt tcaagcggat tgcagaacca atttctaaca agtcaagaac 360

aactagaggg gacctctttg ccacaagaac cgtgaaaccg aaaaggaaag caagtggtgc 420

ttgtgca 427

<210> 35042
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H9

<400> 35042

gggaggcagc gccgtaccca gtggtctgcc tttagtgttt cgcactttgc tattcagctt 60

cattcttcac cggttcaccc tagccgccac cccaaccccc agcgacaggg accttcgccg 120

tcaggccgcc cccaatccct agcgactgcg agcaccgtcg ccaggcgccg tgcagcgagc 180

gtcgccgcct ggcgaagtcg cgcgactcgt gccctgcagc gagcgccgat gtcccgcacc 240

caccgtcaaa cggctgccga tgcccaacgc cct 273

<210> 35043

<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-A1

<400> 35043

gtgggctgca tcatcatgcc tcacaatttg tccttgcatt cagcactagt gcagtccaga 60

aagagtgaca cagacaagaa atctcgtgtt ctagaagcag tttactacta taacatcgag 120

tcgattcttg cactcatcgt gtccttcttc attaacatct gtgtcacaac tgtttttgcc 180

aaaggatttt atgggtctaa acaggctgac agtataggtc ttgagaatgc tgggcagtac 240

ttacaagaaa aatatggaac tgcattcttt cccatcctct atatctgggc tgatggtttg 300

atagcatctg ggcagagtag cacaattact ggcacatatg caagacagtt 350

<210> 35044
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-A11

<400> 35044

aataaactaa caggtaacaa ttagtttgag gttcaatata taactactag cgccagacaa 60

ttctaatcct tacttcatca tcatccatca cttcattccc aacttcttac cactcccaac 120

cacatctatc cactacgcct cattctatga tattactcac ctctaatcaa tcataataaa 180

cttcaaccac cacaacaacc catcaaatct cacttcaatg ttcttaaata ttctgatcta 240

caacacatca tctctcccaa accaacaatg ctttctgctg ccttttatca ttcca 295

<210> 35045
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-A12

<400> 35045

gaccgacgcg ttcgacatgg cttcaaaccg gtggccaatt tccgtataga agtgtgcgca 60

tcttctttcg ggtacgtgtg catttgatgc catgacgacc tgttccacaa ctacgagatc 120

attaaaaatc ggttcaagct ctagccatgc aacttatcga gcctgaccat caccttgcgt 180

tttcagtacg gctgctaact catatacgtg ctcgtgctca tcttgcacga ctactgagac 240

agcgacatgg tgtaggccgc cctcaagcat gacaccttac tacactagga gcacgttcac 300

gaatactggg gctgca 316

<210> 35046
<211> 337
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-010-Q1-K1-A4

<400> 35046

ccgacgcgtg cgcccacgcg tccgcccttg cgttttgatc cggagcagcc gcagtcccgc 60

cnacgtcgac ttcggtcgcc ctccatctcc tcgccgctgc ctctcgtttc tcttttcaat 120

aatcaagatg agccgtggtg gtagtgccgg tggtggtcaa agttctctgg gttatctctt 180

tggaagcggt gagcccccca aaccagcagt ggcaccagct gcaagtgctc cacctgttga 240

gaaaccatct gctgcaaaga ctgatgcggc caagccatgt gctgctgggg gtaccagcca 300

aaccaataac taccacaggg ctgatgggca ggacact 337

<210> 35047
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-A6

<400> 35047

ggggccaaca gtggtgccgg gttccgatta cgccaaggtg cagcgtgccg tgtgcatagt 60

ctccatctcc accagcgtca tccaggtgtt ctcccgcatc aacagtaatt tcgacctcat 120

gtacgccaag cgcgcgttcg tgcactggta cgtcggcgag ggcatggagg agggggagtt 180

ctccgaggca cgcgaggacc tggccgccct ggagaaggac tacgaggagg tcgccgcaga 240

gggcggcagt gatgacggcg acgaggagga ggaatactga tctgcttgca tgaatctgtt 300

tggctgtcga gccaggttgt ggtgttgaaa aacctttgtt tgtgtcctgg gtaatgtttg 360

ggtgttt 367

<210> 35048
<211> 357
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-010-Q1-K1-A7

<400> 35048

gtccgcggac gcgtggggta gagttggtgg actcaaggta agtgctgntg acacaagtgg 60

tgggggcgat gcctttgttg ctggagtgct atctcaatta gccacagact tttctctgct 120

ccatgatgaa ggtcggttga gagaagccct gaagttcgca aacgtctgtg gagcttaacc 180

ggaccagaag gcgctattct gcgctgccac cgacaacatg ctgaccctga caattgtgct 240

gaagtaccct gcaccactac ttgtggggta tgtgattatg aaccgcctga gcgccatgtc 300

gatagattac aggcgtgatt tcgcttgcat accacttggc atttttgttg gtgcgta 357

<210> 35049
<211> 66
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-A8

<400> 35049

ccgacgcgtc cggcagtatg tttatcatta tgacgacgac tactatccat atgcaattgt 60

ccgtat 66

<210> 35050
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-A9

<400> 35050

gacccactcg tccgcttggg cgtccggtac tatggggatc tcttttgaac tgagccacat 60

gatcctgatc ggcccgaatg tctcctaacc ggacgatatc atcacctcgt accatatcct 120

gacactgaag tggcacgctg acaagcactc gccgtcgtac aggccgtaag cctatgcgcg 180

cttcaaggcc atcagcgagg cctactacgc gctcctggac catcaagaca acaggtgcgc 240

gttctagctg tgcaacaacg gtcgtacggg tgataggact cgcagcgcct tcgctggcgc 300

acacggctgc catggccgag gatgaggatg 330

<210> 35051
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B1

<400> 35051

tgggggacgg cactggtgat gttctgtctt gcgtttttta atgtgatagc aagaagcgcg 60

atcatgctct acattgacca ccatggtttt gatgtcctcg ccaaaatgcc tcaaggagac 120

atccttacta atccacaata ccactggaag gagttcaggt tcacattcaa ggaacctgcc 180

aaagatgctg aggacttctg ccgcatgctg gttgggttag aggaagagtg tttgcagacc 240

gtgaagagct gcagcggtta cggttgacaa cccacttgca aggttcacat tctaggaacc 300

agccaaggat gctgaaggac tctgccgcat gctggttcga ttagagggat tttgcaacgc 360

gtgaagagct at 372

<210> 35052
<211> 204
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-010-Q1-K1-B10

<400> 35052

catggcacta gtagatctca ttgctgtatt ttncttgggn ggaaagatca cagggaccct 60

gggacggcac gttatggtat acaccgcaat tatcctctat gcgctctcta cgtcatcact 120

tgcaatatgg acttgagaca tgaccttgac taaatatcat ataaaatgtg aagcaatgtc 180

catataaaat ttcaggtgca tatg 204

<210> 35053
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F3

<400> 35053

tcgcccactc gtgctccgac tcgtgggcca ggtttggctc tgcaggaatg catggttaag 60

gggggggcggg cgcgttcatg tgcctcatga gcaaccttat ggtcctaatc ttcgcgtcgg 120

actggacgag gagcagtctc tgccggcaca tccgccaccc cggcgtgtgc agcgtctgca 180

ccagcgtact cggccggctc ggcaacaagg gcgcggtgtc cgtacggatc ttgctacacg 240

gcacgagctt ctgcttcgtc tgctgccacc tgtgcct 277

<210> 35054
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F4

<400> 35054

cccactcgtg cgcccactcg tccgctttat ttgagtatat gatcgagagc ggatggacgg 60

ggtgggactt taatatcagc gaaatggggt tttctgcgta cctttgttat atggctatgt 120

atctcatttt tgtggagttt ggaatttact ggatgcacag agagttgcat gacataaagc 180

cactatacaa acatctgcat gcaacccacc atatttacaa caaggagaac accttgtctc 240

cgtttgctgg acttgcgttt cacccactgg atggtattct gcaagcaatg ccgcatgtgc 300

ttgcgctctt cctcttccca acgcacttca ggacgcacat cgctctcgtg ttcttggagg 360

gcgtgtggac gacaaacatc ca 382

<210> 35055
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-009-Q1-K1-F5

<400> 35055

cccacgcgtc cgccacaagc gagctaggta cccggggcgg aagaagagag agaagacgtg 60

tctctcctct cggcgtcccc gttccccaac ctctcgtctg ctgcctgcct gcctgcctgc 120

ctgcaaaaag gagtttgtca tggcgtctaa gcgcatcctc aaggagctga aggacctgca 180

gaaagacccc cccacatcat gcagtgcagg tcctgctggt gaggacatgt ttcattggca 240

agcaacaatt atgggaccac ctgacagtcc ctatgctggt ggtgttttct tagtgaacat 300

tcatttcccg ccagattacc ccttcaaacc tccaaaggtt tctttcaaga caaaggtctt 360

ccatcctaat atcaacagca atggaagtat atgcctngac attctcaaag 410

<210> 35056
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F7

<400> 35056

tcgctggggc atatcgcctt agtgactcac gtttttgctc caagaaacca cctccgagcc 60

cgggcgcaca tgcgctcgag gcatgataga gatagaggcg gtgagcaaaa ctatggatgg 120

gaaagaggag gacgtgcgcc tgggcgccaa caagttctcg gagctccagc ccatcttgac 180

ggctgctcat ggcgctgctg acgactagga ctacaaggag cccccgtcgg cgccgctgtt 240

cgagcccgga gagctcaagt cctggtcctt ctactgcgcg ggcatcgtcg agttcgtcgt 300

catcttcctc ttgctctaca tcaccattct caccgtcatg ggcgtctaca agttcacctt 360

c 361

<210> 35057
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F8

<400> 35057

gcggtgcctg tgcgaacggc ggcccctgtt tccgctgttc actcggatca gcatgtgggg 60

agtggtgcga tggtggagga ctctgcggcg tccacggtgg ctccagagtc aacttctgac 120

gcagatcagg ctatcgagga cgcagccccg gaggacgggg tggacgagga tacagtgaca 180

aatgttgatg tcagtcctga ggacatgaga agcatcattg aagttatagc tgacaccgga 240

aagttctggc atgactggag gttcctcaag agtgtactgt ctattcaatt gaagcaggtc 300

ttggatgaat attttgaggt tgaaatggtg agccaaaatg atgggcaact gaggtctttc 360

tcagagctat ttagtcggct aaatggtgcc cttgaaaggt ttgaagaggg tcctccattc 420

acactgcaaa agctttgtga gaatttgttg gatccaa 457

<210> 35058
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F9

<400> 35058

cccacgcgtc cgcggacgcg tgggctaggc ttctccccgg gcctccgact ccgagtggga 60

cacgctgttc tactcgctcc tgttgcgcga ccaattcgcc ttcttcgacg cccgctcctt 120

ccaatccctt gacaggctgt tcaacgcctt ccccctgcag aagaaccc 168

<210> 35059
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G1

<400> 35059

gtccgcccgc gcgtgctccc actcgtccgc tatatttgac tttatgatcg agagcggata 60

taccgtgtgt gtctttaata tcagcgacct gggcttctct gcgtaccttt gttatatggc 120

tatgtatctc atttttgtgg agtttggaat ttactgcatg cacatacagt cgcatgacat 180

aaagccacta tacaaacatc tttatgcaac ccaccatatt tacaacatgg ctaacacctt 240

gtctccgatt gctggacttg cgtttcaccc ac 272

<210> 35060
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G10

<400> 35060

cgcacgcgtg gagtatatct gcctttaagt ttgccagctt gggaaacccc agtggaaccg 60

ggtgatcata ccaaatgggg cgctgccacc acccgaactg cttatctgtt gttgagaagg 120

cctgtctgaa caccaacagc tgtacaggat ccatgacaga cgagagcttc tggaaggatt 180

tatgccctgg agtcaccaaa acacttgaca tcgaaacgga atgctcttac tgacctactg 240

aacacgaacc gtctcagtgt gcatctaagt tccactgcta gtatgcccgt caaaattcta 300

aaactgtagt gctagttgca cggcaatgct attgtaacct ggattggaat gtatacatct 360

gatctaggct atgtttcaag agctacttta aactaacgtt agagctgagc agcatgaaat 420

ctgattaacg c 431

<210> 35061
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G11

<400> 35061

ccctcactcc ccgttccact gctcctacac tttcgaccag atgacgagag gcttgggggc 60

cgatcccata tcatagtgcc tggcgctagg agcagcggcg gtggtgctgc tcgtagcagc 120

ggcgctgcct taccaggcat ctggagtcga cgtgacgacc gtactctcgg tgtatcccaa 180

cttcgcggac tttgcgcgta tgatggcata cacccacgtg gtcagcgagc tgtcctggag 240

atcgtgaatg acgctactgt ccgtgccgaa tgccaacctg ccgtagtcac cctaggcttt 300

catagctagc gccagcgccg acattgccga cgtgctgaag tatcacgttc tgctggagta 360

cctctacgcc tgcgacctgg accgcctcta tccctccggg aagctcgtga cgactctgtt 420

tcaaa 425

<210> 35062
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G12

<400> 35062

gggcccacgc gtccgcccac gcgtccgtct acgtttccgg ctggccatga ggaggcgaga 60

gccgtgacct cgatcccctt ctcttgcacg caggctccat gccttttctt cgtctctgcg 120

ggccgctgtc gcgtcgtgtc tgcgaagaat ggaggaggcg gaggcatcaa gcagtagtac 180

gacttctggc taattgagcc catcatgttt agtggtgccg gtagagacga cgccgtcgtc 240

gtcgtcccac tcaagaacat gggcaggcga gggagctttc gttgtgggaa tcagatttga 300

agcggcgaga ggtggtgggt tgtgcttgat cggtggtgtg ctcatgcctt ctgttttgtg 360

gctgtaggat atcaagagga ggaaagaggc gctgaagaat ggtgcagatc cacatttgtt 420

tttgcataat tgct 434

<210> 35063
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G2

<400> 35063

gacccactcg tccgctggaa tgaaagatac tattgattgt gcatgaagtc ttgtcccctg 60

tgatagcaca catgtgctgg aatgaaagat actattgatt gtgcaaaaat tcatgaaaac 120

ttcttgctat ccagaaaata atcgatttca tacatcaatc ataacacgta tcatatttct 180

tatttaaaaa aaaaacacaa tacaaacatt taaatacaac ccacca 226

<210> 35064
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G4

<400> 35064

gcagatgctt cggtttcgtg agctacgact ctcctttctc cgcgcaggca gccatcaacg 60

tgatggtcgg ctaccagtta ggcggtaaaa aactcaaggt acaactgaag agagaaaaca 120

acaccaagca cagtagtaaa ccgttttgac agacaaggca gcagccgtcc ggtacccggt 180

acatattaat tgaccatcaa cacattgcat cagcagcctt catggcctgg ggagggaaga 240

gacccgtgta ccccctcttt gttcaccttc acattcttgg agattcgtca gtcagctcag 300

ctcgtgtaat tcattgcagc agccataggc cgtagcagca gtctgtacca tgatcaggat 360

cacttgtaca catgattcat tcaattgtta ctgacagccg ggattttcat tctaaa 416

<210> 35065
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G5

<400> 35065

cggacgcgtg gggcgatgcc gagcttcctt tcgtcgggcg ccgtcaccat ctgcgagatg 60

aaccgctacc tcgttgcggc ggatgccctc tccgacgacc gcgccaagga cgcatatggg 120

gatgtcctcg ggatggtgtt cgccccgatt ccgttccagc cggaggctct tcttctcgcc 180

agccgcgagc ctgctgctcc tgccgcggac caagtcgagc ctgctgacac tgtgcccacc 240

gctggtttgg cagccaccat atccgacttc ttcaggctga tggtcttccc tccactagac 300

ccaaatctgc tagaagaatt tgacactcag aaagtaagtt ggtacccata caagcatttg 360

ctagcattcg tgtctgggaa gaa 383

<210> 35066
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G7

<400> 35066

cttgaggaaa ccatgctctg ctcccaagtt gaaggagatg acacgaagcg gtatatttgg 60

ggctgttggc gagggtgaag aagatgaatc cgtcaatgtc tctgcaactt ccgtccggac 120

ggctccaaag aattatcagg caatcagtac tataagccac atctcatttg ccgaggaaga 180

aagcatctct ccaaagaagc caacttcgat agcagaggtc gcaaagcagc gcgagctaat 240

cggcacgctt ctgatcgagg acgacagcaa gatgaagagg cagatatcgg acctgaaatc 300

caaggagctg agcggtcact acatctttgc cccttcggag gatc 344

<210> 35067
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G8

<400> 35067

gacccactcg tccgctgact cttgcgtgcc tcgagcacga cctttggcct gcattgccgt 60

ggcggcggtt gcgctcctct cgccgacgct cggagcggag atggtcgagc ggcagttcgt 120

ggagtgggtg cgctacatgg gcggcctacg gcacagcacg ttccatcagc acgcgctgga 180

ccgcgcgtgc acatcgtact cgctcgtcgt cgacgcgaac cctgcgttcg gagacttcac 240

gaccatagat gccgccgtcg actcgctccc agacatgaac ctcgtacgcg tcgccatcag 300

ggtcaaccgc agcacctaca ctgagaaggt gagcatctta gcgatgcgcg cgtgcatcac 360

cgtggatggc gccggagcgg acagcacgat cgttcactgg ggcg 404

<210> 35068
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F2

<400> 35068

tcgcccacgc gtccgcccac tcgtccgcaa actttcttgg agaagtttga taaaggatct 60

ggggatgctg ctattcaaca agtgaattgg gacacctcaa aagtgaagga taagcttaga 120

cgtgacattg aggctcatgt agcttcagtt cgagctgcta aattatctga actttgtgcc 180

aaatatgagg cacaacttac caaagctctg gcggaaccag ttgaatctct tctagattca 240

gccagtgaag atacgtggcc agctattaga aagcttcttc aacgcgagac aaaaactgcc 300

gtttcaggtc ttcaatctgc tgtgtcagct tttgaacttg atgaagcaac tgagaaagaa 360

ctgcttgtga aagctgtaga agcatggaat gaagtgtgtt gagtcatagg caaaagaaga 420

agctggaagg gtt 433

<210> 35069
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D7

<400> 35069

cccgcgcgtc cgcccacgcg tcctcccact cgtccgccca cgcgtccgat tttcgactag 60

ttacgcgaag ggaaatggcg accgttccag gggatctgat ctggcagatt gtgaggaaga 120

acatctcctt cctggtgaag cagtttggca acggcaatgc caaggtgcag ttcaccaagg 180

agcccaacaa cctctacaat ttacactcct acaagtactc tggcttagca aacaagaaaa 240

ctgtaacgat ccagccagct gctggaaagg actcggctgt ggtcctctct actaccaaga 300

ccaagaagca gaacacaccc gcgaagctca gccacaagtc tgtgatgcgc aaggagttcc 360

gcaagatggc caaggctgtg aaaaaccagg ttggcgacaa ctattacagg cctgatc 417

<210> 35070
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D8

<400> 35070

gacccactcg tgcggtcggc ctttttttt ttctttttca tggttaaaga acatcagttt 60

ctcatcgggt atggaacatt acattagttt cccgtgacaa aaaaggacat gagggaaaaa 120

acgatgaaga tacaacaaga aatcgaaacc ttctcatgct gttagattgg ttaactgacc 180

tacacaattt gtcaaacaac tcaaccaagc actacgtgag ggccttatta tacaagtgtg 240

ttcaagcaca tataacagct tgagcgacta gaatcatgcg cgagctcatc tctaagcttt 300

gagctcttta ttcatctacc ctccaccgtg tgtatgctat ctatggccag catatagtgg 360

cagtaccgta tgaatgtgcg tgcatgccat ac 392

<210> 35071
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E1

<400> 35071

tccacgcgtt cgcccacgcg tccgtccact cttccgtaaa gaggggcaca agcaagagag 60

ggattgggag ttaggacaca tacgctagag agagagagag agagagaggt ggtggccggt 120

gggacgtccg tggtggtggt ggagttggat cggctgtgct tgttcctcgc ttcttgctgg 180

atcagaggag gtcatgatca actaatgcct attcatttat tatggacttg caccagttgt 240

taaagtacag attaactggt gctaacgtct actacgaatt tcctacagag aacaacttag 300

caaacactcc ttggccagct agtccactga agtctgagtt cagcagctca tcatacactc 360

ctcttttatc ccagcttgag tgtgataatt t 391

<210> 35072
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E10

<400> 35072

cgcctgtgaa agttcggagc cgccttcccg ttcgcctccc tctccgcctc ccgtgcccaa 60

ggccaatagt tttcaagtgg caatggcgga ccaggctaac caacccactg tccttcataa 120

gctcggtggc cagttccacc tgcgctcgat catctctgaa ggtgtacggg cccgtaacat 180

atgcccatct gtctcatctt atgaaaggag atttgccaca aggaactaca tgacccagag 240

cctttggggc ccttcaatgt ctgttagcgg tggcatcaat gtcccagtga tgcagacccc 300

gctctgtgct aatgctcctg ctgagaaagg aggcaagaac ttcatgattg atttcatgat 360

gggcggtgtt tcagctgctg tttcaaagac tgctgctgct cccatcgagc gtgtgaagct 420

gcttattc 428

<210> 35073
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E11

<400> 35073

atcaggcttc tcatcgccac caatgtgcca ctttcgaggt ccagaccccg accgtcgtgg 60

cgggcgagga agcgcccgtg gtggagaccc cgccgccggc cgtcgtgccc gaggagtctg 120

cccccgccga ggccgaggcc gaggccgagg ctgctgctcc tgctgatccc gaggagcttc 180

ccgcggccga gcagcaggca gccgccgagg cggaggccgc ggctcctgct ggtgccgagg 240

agcccgtcgc ggccgaaccg gccgccgagg cggaggctgc tgctcctgct ggtcccgagg 300

agactcctgc ggtcgagcag gatgcagccg ccgaggagga agctgctgct gctccttctg 360

ctggtgccga ggagcc 376

<210> 35074
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E12

<400> 35074

gcgcttttac tctagaagaa gacaccttct catattgcac ttacattaga ggcggtatgt 60

gttagggagg tttttccacc aaaagttctt aatttcaaaa cctttgaaga ggcaatcaaa 120

gggccaggag aatttctcat gagtgatttc ttcaagttcg accgcccacc ttttgtgcat 180

ttggcctttc aagctttgga caagtttatg actgaattga cacgatttcc tattgctggg 240

tcaacttatg atgtt 255

<210> 35075
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E2

<400> 35075

ggagctaggt ggctttaaac tagaccaact catggattga catccaaatt tgtcttgcgg 60

agacggaatc tatgcggttt aggcgtgcac ccatatcctc aaccacccta gctgggctca 120

gctttcttct atgcactact ttgatccctg gtcgttactg ttacttgagg tggttttgat 180

ttgtttgggt gtggtcgtgt tcttttgctc ctggtgcatt tgcaatcttc tgacctgtga 240

ggggcgtgtt gtttgtatta cattcttctt aatgcaatga tgtgcatttc tcccgtgtat 300

ttgagaaaaa agtataaata agatgggaaa taagatacct ttttttgtta tctttcccaa 360

aagttttttt ttcctgagaa acggaatagc tgtatt 396

<210> 35076
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E3

<400> 35076

cccactcgtc cggggaaaac catatggatt tatcctactg gataccttcc gggtcggatg 60

gcacctgtta agaacttttt tggactgatg tcttttgcat ttgtcgtact tgggatctat 120

tggttttatc agtatatgaa gtcctggaga gaggttcttc cacttcagaa ctgtattact 180

cttgtgatta cactgggcat gtttgagatg gcattgtggt attttgagta tgctgaattt 240

aatgagactg gagtacggcc aaaaggcatc acattttggg ctgtcacgtt tgcgactgtc 300

aagaggactg ctgcttgaat tattgttctg attgtctc 338

<210> 35077
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E4

<400> 35077

ggagacgaga tctgttgacg aagcaagcta tgcattgtcc ctggatggca ttatgttcga 60

atgggcaccg gtgcaggtta gaacgccaac atactacaac ccttgcattg cagccgtact 120

gggcccaagc cagcctagcc ccaatctgaa tcttgctgca gttggcctaa cagcatgatc 180

taatggagga ctagaaggtc cagaccgtat ttttgtgggt ggcctcccgt attacttcac 240

tgaagcgcaa gttcgggagt tgcttgaatc attcggtcct cttcgagggt ttgatcttgt 300

gaaggatagg gaaactggta actcagaagg ctatgcattc tgtgtttacc aggacctcac 360

cgtcactgac atcgcttgtg ctgcactaaa tggtatcaag atg 403

<210> 35078
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E7

<400> 35078

ggaggaaagg caaccgctac gactggaggt taccattccg agaggaagat tacggcgagg 60

acgccgctgg ctttgcggca ggtggtcgag gcaatggata ccgcagccgc aggagcagca 120

gcaactatta tgaggggaga aggaggacga gcaactacca gtcaagtgtt tctaacaatt 180

ttgctggtgc tgcctcaact ggtgttggag ctgacggtaa caccaagagc agcagcagtg 240

gatatggagg atgggatgag cttctggaca acgacactgc tgctcaggag acaaagagga 300

ggagctcatt ctcagctggc accactgatc aaagcacaaa atcgcagcct tcagcgactg 360

gggaggaaga tgcagattat actgccactc ctttaacaag aacgagaatg agacgacggc 420

ggacg 425

<210> 35079
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E8

<400> 35079

gcgcccactc gtccgctctg aggcccttga ggtcctggcg gcgctcgaga aggactgcta 60

gggggtcggt gctgagttcg atgagggcga ggatggcgac gagggtgacg agtactagag 120

aagtttgctg atgacgcagc atcaggccag tgtgctgccc ttatcccgtg atctgccgag 180

agttgctcct gctatcgtgt tatgtgtgtc tgttctgaag tattgtgtgg tttacaacac 240

ctgatgttgt aagagttgtt aattcccctg cattgctacc gggttattga gaataattat 300

ggctgtttac gttgttgctt c 321

<210> 35080
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E9

<400> 35080

aggacgcgct cccgtcgttc ccgctttcga ttgcggcggc ggtcatgaac ggtggctgcg 60

ggctcatcgt ggacccagcc tctggtctgc caaccgcgct gtcatcagct gcggcggcgg 120

caacggccgt gtccggcggc agcaccacgg agaaccccat cctcacggcg ctgttcaagg 180

agatggtacg cgcgatgctg agcgtcgtcg gcagcggcgg tggcaccacg gcacttcagg 240

ggctggagcc accgcccccc atcgcggggg tgccgatgga aggggagaag tggcggcagc 300

agcggatccg ggagctggag gtgtacctgc gtcggatgga cctgctgcag gaccaggcca 360

gggcggcgct ggaggaactc aggtccgcgc cgcacgccgg gggcatgaac acttgattgt 420

cttgggttca gca 433

<210> 35081
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F10

<400> 35081

ggctcctctc ccccgttgcg caattcgctt ttccccactt cacccgcctc ggcggcatgg 60

ggaagctcgc gctggcgctc ctgctcctgc tggccgtggc ggcgtccgcg tcggccagca 120

gcagcagcca cctggatctc gacctgcgct ccctgtgctc tggagaccgt cggagggagt 180

gccgcgggac ggtggccgag tgcctcgccg aggagtcgga tgaggagggc cttgacctgc 240

ccggatccca ccgccgcgcg ctctacggcg gcgggtacat cagctacggc gcgctgcggc 300

gggacaacgt gccctgctcc cgccgcggcg ccagctacta caactgccag cccggcggcc 360

aggccaaccc ctaccaccgc ggatgctccc gcatcacccg ctgccgcggc tgacgcggct 420

acggatcc 428

<210> 35082
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F11

<400> 35082

cccacgcgtc cgccgacgct caacctgcac ttcgccactt cacacgcctt ctgaccggga 60

gtgagatctc tctagcgctc cttgtcctgc ttgacttgcc ttactcagca tcatccaaga 120

ccactagcca cctagatctc tacctgagct tcctatcctc tggagaccga ccgacatagt 180

gccccaatac gaaagactat tgccttagag acaaatcaga ttacgagagc cttgtcctga 240

cctgatccca ccgtcgtacg ctatacagcc tcgagtacat caactactgc gcgcttcaac 300

ggaacaacgt gccctgctcc caaacggatc cagctactac aactgtcacc ccggcggcca 360

gaccaacccc taccactcga gaatgctccc gcatcacccg atgcc 405

<210> 35083
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F12

<400> 35083

gcgcaggaag caagtgcaca ctcccacttt ccctctccac tcccgcgcgc ctcgcccgcg 60

accggggcct gtggtggtgg aggcggcggc catggcggag ctgcggcact cgatggcggt 120

gcgctcgtcc aactcccccg ccaagcgcga ttccgacacc ttcgcggcgt tgtccccctt 180

cctcctgtcc ccctccaccc gcggcagccg cggcggcggc ggcggggacg acgacggcaa 240

ggacgctcac cgctcgtccc ctctcctctc gcatcaccac cacaagcgtg tccacctgct 300

gacgtccccg ttccgctccc tcctcgcact cgaggacccc aggtcctccg tcgactcgtc 360

ctcctaccgg atcctgcttg ctctcctcgc gctccttctc gccgctgtga tcttctgcgc 420

gcccttgttc tggtcc 436

<210> 35084
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D6

<400> 35084

gcgcccgctc gtccgcccac tcgtccttat ttttcggttt gcttgtaggg ctctcgggtc 60

tggtcccaga tacgctcatg attggcatgg agctcaggga caaggtaacg gagtatgtga 120

aggagaggat tttagctcta agagcggcaa acccaggaca gtatgataac atatccgttg 180

tccgcacgaa ctcgatgaaa tacattccaa attacttcag aaaggctcag ctcaccaaga 240

tgttcttcct gttccccgat ccccacttca aggagaagaa ccacaggagg agggttatca 300

gcatgcagct gttagacgag tatgcttacg tgatggaagt gggaggaatc atatatacca 360

tcactgatgt cgaggagctc ggagagtgga tgctgtcgtg tctagagaaa cacccgttat 420

tcgaaaccgt tcctgaagaa gagatt 446

<210> 35085

<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-C10

<400> 35085

ggatccgatt cagactgggt acagtctacc tttaaagcca aaaaacacca tagaagagtg 60

tgtagccatt caaatcctaa cctggattgt caaaatacac aaggcaatgc ataaccagag 120

aagccctcag atgaaaagtg cattttgccc aaatatattt catcagacgg ctgttcatgc 180

tcaaaatcct cctcatgcaa gaccaacaaa tgcgagtgca gaggctcagg tgcacaatgc 240

ggtgcaggct gtggttgtaa ggattccaaa tgttctaaca gggattcttc tatagaaaaa 300

gccaatcagg gagccatgct tcttcagaac gcgttttctg agaaggattc ccaagatgca 360

tagccaagga agcctttgat taacattggt aataatatgg ttaaccaaac tgccgagaca 420

aa 422

<210> 35086
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-C11

<400> 35086

agccaaccgc atccagtcca ccctttccct ttcgaccccg acaaccccga gtcccgaccc 60

ggtggcgccc aaggccgaga agaagccagc ggagaagaag ccggcggccg aggagaaggc 120

ggagaagacg accgcaggta agaagcccaa gtccgagaag cgcctgcccg cctcgaagtc 180

ctccggcaag gagggcggcg agaagaaggg gaagaagaag gccaagaaga gcgtggagac 240

ctacaaaatc tacatcttca aggtcctgaa gcaggtgcac cccgacatcg gcatctcctc 300

caaggccatg tccatcatga actccttcat caacgacatc ttcgagaagc tcgccggcga 360

ggccgctaag ctcgcccggt ccaacatgaa gccca 395

<210> 35087
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-009-Q1-K1-C12

<400> 35087

ggaagaaaaa ctagaaaccc tagctatgct gtagatccgc ctgagcaaga ttggctcgtc 60

ggactccgtc ggtgccgccg ctagcacggc agctggcgcc ggcgcccccg ccgcggttgg 120

ggcggctgcg gcgctcggcg gcagcatcct ggaatcggtc accgtggcat gccccgacca 180

cctcgtgatc gcggacctcc ccgtcgcgaa gagcctcggt gccgtcacgg cctccgctgc 240

cgccgccacg cgcgccatcg gccgtcgctc ccgtcgtccg ctcggngagc gcgtncacat 300

ctgttcccgc tgcgagttcc ccatcgccat ctacgggcgn ctcatccctt gtgaacatgc 360

cttctgttta tcctgtgcaa gaagcgattc tagctgctat cttt 404

<210> 35088
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-009-Q1-K1-C2

<400> 35088

cgggctcgtg ggctcaccac caccgcgcct tctcttctcc ccccaccctc ggtctgaaag 60

gcaaggttcc gcttctctca tggccgacgc caccgacgcc ctctcagctc ggagcaaggt 120

gcacgctttc ctggaggctg cgcgcgccgg cgacctccaa tccctcaaga acctcgtcgc 180

ggcgctcgac gaggacggca cggtcgccgg ctccgtcgcc gccgccgtgc gcgacgccaa 240

caagcgcacc gtcctacact tcgcggcgat cggatgtcgc accgacgtct gtgaattcct 300

catcggcgag ctcggcctnc ctgtcgaccc aaaagacgat gatggcaaaa cttcgttcat 360

ncatg 365

<210> 35089
<211> 343
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-009-Q1-K1-C4

<400> 35089

cccgcgcgtg cgcccacgcg tccgcggact cgtgtgtctc catcttggcc caaccgatcg 60

caaacgtctc ccctttttctc cgtcctctcc tagtccacac ggcagacgcc gccgccgggg 120

gagaggagag gaggggaggg gatcggctcc aagggaacag gtgagatggc aatcctgtac 180

gcgctggtgg cgcgcggcac ggtggtgctg gcggagcaca gcgcggcagc caccaacgcg 240

ggcgctatcg cgcgccaggt cctcgagcgc ctncccgacg gcggcgccga cagccacgtc 300

tcctacacgc aggaccgcta cgtcttctac gccaagcgca ccg 343

<210> 35090
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-C5

<400> 35090

tcagccggcg accccatcgt gactgggcct tctcatcgag gtctccctct ttcggcgtcg 60

ttgaccatgg ccccaagccg tcggaggtgt acggcttcgt tggatccatc accaccgtca 120

ttgccaccgt cgtgtacctc gcctgggcat acacgcccga gcccgtcctc cagtcactcg 180

gcatcaccta ctaccctagc aagtactggg cactggcggt gccatcgttc gtggttgtga 240

ccgtggtgct gtccatgggc atctacatgg gcctcaactt cgctgccact ccttctccga 300

cttccttcag tactatcttc gatgaaaaga gtagggagca cacagccttt tttcctgcaa 360

ctgaagatga aaggcccatc gaacccatct cagacatcgg tattgatcgg atcaacactc 420

ttatgtttgg tgatagatga tt 442

<210> 35091
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-C6

<400> 35091

gcgtcgagac cccaaacccc aaacccttgc ttctctcgat gcggctagcc gtctatgggg 60

aacgctctgc tatccaaacg cgagaagcgg cttcagacgt tgcgccggta gatagcggag 120

ccgttctacg acaagaagga cgccgccaag ctctccgcgc aggccgcagc cctagctgct 180

gtcccgctcc cggtccgcgg tcccccgtcg tgccaggatg ccggcacctc ccgcgcagct 240

agctcggcct cggctatgga tgtggagatg tctggtgcaa ggaacagcag gtctaagacc 300

tttctgaagc cacttggcag cattag 326

<210> 35092
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-C9

<400> 35092

gatacgatgc tcaagataaa tgacttttat gttttcccac ttcaattgga tcttgagaga 60

ggggattgaa aatatctttc tccatactcg gatagaagtg tgcgtaacct atatactctt 120

catagtgtac tggttcatag tggtggagtt catggaggac actattatgc ctttattcgt 180

ccgaagctgt ctgatcaatg gtacaagttc gaggatgaac gagtgactaa agaagacatg 240

aaacgagcat tgtaggaaca atatggtggt gaag 274

<210> 35093
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-009-Q1-K1-D1

<400> 35093

acgcgggcgc gtggctatat atcttgtttc ctttcttctt cagtattcgc cgaacctgcg 60

ttgtatcgct cttgaggcgt gtgctcattc attctttgac gaattacgag aatcacatgc 120

aagactccct aacggacgcc catttcctcc actattcaac tttaagcagg aactatcaaa 180

cgcaccaccg gagcttgtca gcaggctatt accagagcat gctcgacggc attcaggatt 240

cggttcctta tttgggagtg gaccgtagcc cgtatgaaaa tctcgtttta atgttgggct 300

gctgtacgct gtcagagggc aatctgcata tcctaaatct aagttntaga acctgaccat 360

cttgttgaaa agttgccagc cttagaaaaa cccgaagtgg cctcttgtgt ccatgctctg 420

ccagtaacgg cacataatg 439

<210> 35094
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D11

<400> 35094

cccacgcgtc cgctgactcg tgggctgcat tctaccatcc tcacagctgc tgctggcctg 60

agtctcaccc tattcacctt ctggggcgtc aagaggggct accacttcac cttcacgttc 120

cccttcctgt tcgcctgcct cgtcgtgctg ctggtgctac atcatcatcc acatctgctt 180

ccccctggga agggtagcca tgaccatcta cggcgttctg gccaccgtcg agttctccgg 240

cttcatcgtc tatgacacca acaagctgct gaagcgccac tcctacaacc agtacgtggt 300

ctcagccatc tccctctacc tggacgtcat caacctcttc atggaccaca tggccatctc 360

cttccagtga tggattgaca gtctcacctg tacggctgta ccccatgcat gacgggccct 420

ctcccgtct 429

<210> 35095
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D12

<400> 35095

gggacctttc actggaaaga gattctgagg tggaggctga gttcagagca aagatgaagg 60

agcaggcaaa cgcacctgaa gatttgcccc cacaacttct ctttgctcat cagggccaga 120

gagacttgaa agaactgcac tggcacccac agataccgtc gatgatcata tcaacggcaa 180

ttgatggctt caacgtgttg atgcctagca acattgatac aaccattcct ggcagcactg 240

atgcagcaat gccatctgct gagccacagc actagccaac attgatacaa gcattcctgg 300

cagccctgat gcaatgccat ctgctgagcc atagcactga tgtaagcgtt tcttgtagca 360

tggctcccag cttaaaattc caagtctacg cagtggtgta tccgagtgcg gttggcattt 420

gtgttg 426

<210> 35096

<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D2

<400> 35096

ccttccgcca taacaatata tcttctttac tttttacttc attattctcc taaccttctt 60

tggatcgcgt ctaattcttc ttctcattca ttcttttact aattactata atcacatcca 120

ttactaccta actaactccc atttcctcca ctattcaacc ttaatcaata tctatcatac 180

tcaccatcat atctttccat cattctatta ccacatcatt ctctacatca tttaataacc 240

cctttcctta tt 252

<210> 35097
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D3

<400> 35097

cgggcgcgtg ggcggactcg tggggatttt cagtctattg gttgtgggga tttggatatg 60

gaagggctta ctgaatccat atatgtggcc cacaaagatg agtacacaga atttgagcag 120

gcatcactca agcagctatt tcagtcaaag atggctgaac tgagagctga ggctaagcaa 180

caatctgagt ctactggctc aattggacgt gcaaaaggag catctttgac cacatcacca 240

cagcaacaga tatctgttac tgtagtaacg gaatttgttc gctggaatga ggaagccata 300

accagatgca cactactgtt ttctcagcct actactgttg cagctaacgt gagatccata 360

tttgcatgct tgcttgatca agtgagccaa tacttaactg aagggcttga ccgtgctaga 420

aagagtttaa atg 433

<210> 35098
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D4

<400> 35098

cccgcgcgtc cgccgcatcc gccctagcat ctcgcgtcga gcaggatctg cccagttgct 60

gttgcggtag ttcccccaac tgtcaccatg cagaacgagg agggtaagac tgtggacctc 120

tatgtcccca ggaagtgctc ggccacaaac aggatcatca ctgccaagga ccatgcctct 180

gtccagatca acattggcca cttggatgcg aatggcctgt atgatggtca cttcacaacg 240

tttgctctct ctgggtttgt ccgtgctcag ggtgacgcag acagctcctt ggacaggctg 300

tggcaaaaga agaaggctga tatcaagcag tagattttac atctagttta ccaagaattg 360

gacaccgtct ttaactatgt ttttgaattc atgtcactat atgca 405

<210> 35099
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-C1

<400> 35099

cccactcgtg cgcttctaca tcttgctgtt tgcctttggg aaggtggaga tccttatgtg 60

cgcgggttag ccttactccc agagcagccg ggatgaggcc ttcatggaca tggtccggtg 120

agactgctgc ggacgatgaa aggggttggt tgctcggcgc cgttttcgct tggctgtgag 180

ctggtagcct cgtttcgccc ttacccagag ccttctccac cgtgctgaac gatctgaagt 240

atgctgacac tcatgaatgg ttgaaagttg agggtgattc agcaaccgtg gggattactg 300

accatgccca ggatcatttg tgtgacgttg cttttgtgga gctaccacaa gttggcatca 360

gtgtatccta tggtaagaac tttggtgctg t 391

<210> 35100
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D5

<400> 35100

ccggccgacc cactcgtccg ccactcgtcc gcccactcgt cctccactcg tccggccaac 60

ccctactcgc gcggctgcgg cgccatcacc cagtgcaggg gctgatgcct gcctgatgat 120

ttccgttccg tttcgtcccc agctattagt cgggtcttca atttaaagaa gaagacatgc 180

atggagcgat gtcgtcgtct ttgctgtgcg ctatagcctt tctcgtccgc ctgaggcacg 240

catgactcgt ccgtcgatta ttgtgctgca gtggacatgt gtatgtgctc ctgtttctag 300

catatcccct tgctttcagg aagaaagtga aagtaattat atatatgatg atcgtgtaat 360

aattttcgtc tacgagggag aatgaccttg tcatgcagaa aagatcaatt caagtggctc 420

agcgttcgga ttaaa 435

<210> 35101
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A3

<400> 35101

ccgggccgac ccactcgttc gagcggggcc ataaaagagg ctatgtgttt tatgatggat 60

cctttggtgg ggaagaaagt ggttatgtag tgatcacagt ccaagttcaa taggtatgga 120

gcatttgata agacagcaga tacacgtacc agtgcattca tggcaccagc cttcttgtga 180

tggttataac ctggccttcc cgatcccgaa cctcttccct tgcaagaacc ttgtgacacg 240

tgaaggcagc gcctggttgt acagtcctga ctccaaagcg ttgagggaaa agctcaggct 300

tccagtcggg tcctgtgagc ttgccgttcc actcaaagcc aaatcgaggc ttttctcggt 360

agatcgacga agagaagcgt acgcgacgat actgcattca gcgagcgaat acgtttgcgg 420

cgcaatctcg gcagcgc 437

<210> 35102
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A4

<400> 35102

agaggtttga ggctgaagcc taagtactct tcccatagcc ttgtccaata catggagatg 60

atttctaaac ttcggcaccg tcatttggtc agcatcattg gtcattgcat tgtcagtgat 120

gaggagaatc ctaatatcgc cagctcggta tacctagttt ctgaatgcga gacaaatgga 180

tctttaagaa gtcaccttac tgagtggagg aagcgtgaaa tgctcaaatg gccccaacgg 240

gtttgcgctg tcattggcat tgcgagaggg gttcagcttc tgcataatct gactgctcct 300

gggatcgtac agaacaatct caacatagaa catatcctgc tagacaagac cctcacgtct 360

aagatcagca actttagtct ttcaatgatt caac 394

<210> 35103
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A6

<400> 35103

gcgcgggcgc gtgggcggac gcgtggtcgg actcgtgggc ggacgcgtgg gacctcggtc 60

gcgcagccct cacccagcat ggtgctccag ctccactgcg ccacaccgac catcaccatc 120

tctccgcctc ccgcccgccc tcgtcactac ccccaccacc tctacggcgc cagcggagcg 180

ctcccggccc cagctcgcgg cctcgggcaa cttccccgcc tcctcctcgt cggcgtcaga 240

gacccgcgcg cggacggagc ggtctgccac gtgaggaggc aggtgcggta cgacgaggaa 300

gacgaggagg aggaggacgg cgaggagtgg ggccacaacg aggacgtcgc gaggattgaa 360

cggtacagcg aggacccccg cgaccaggcg 390

<210> 35104
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-009-Q1-K1-A7

<400> 35104

acccactcgt gcgatcatac acaacacagc ctctcgtatt gcttaattca ttaagatttc 60

acaaatggaa acggccagct gttactttca agagaagaaa gcaatgcaca aggcaatagt 120

taccttgaca gccggtggga accctccatc agtgacagta ataatggtga gcataatcat 180

ccataggcag gtctgcaaac tatcctggag aattcagaag atttaccgtc accatcaggg 240

agaacacaac ctgccgtttt cccacgtggc caaagctctg gacaaagaat tatgggcaat 300

atgatggata atattttggt cagaagtctt acgtccaaat caaatggtca aacagatgat 360

attgctccac cctcacctgt gaaggcccct gatgatgagg ctgacaaggc tgaagatgaa 420

gaaagcccta tgatggaaac tgtcangagc aaatgtatta cac 463

<210> 35105
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A9

<400> 35105

gcgtgcgccc acgcgtccgt cgacgcgtcc tttcacgctt ccggattttt ttaggcggct 60

gggggcctgc ctgtctccac tggaagctcc ggattacgta ggaaaggggc gggcggcatg 120

aggatccagt gcgacgcgtg cgaggccgcg gcggccacgg tggtgtgctg cgccgacgag 180

gcggcgctgt gcgcgcgctg cgacgtggag atccacgccg tcaacaagct cgccagcaag 240

caccagcggc tcccgctcgg cgacgccgcg gcgctccccg ccagcctccc gcgctgcgac 300

gtgtgccagg agaggccggc cttcatcttc tgcgtcgagg acagggcgct cctctgccgc 360

gactgcgacg agcccatcca cgtccccggc acgctctccg gcaaccacca gcgctacctc 420

gccaccggca tccgcgtcgg cttcagctcc gtc 453

<210> 35106
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B1

<400> 35106

cccggtcaga gaacccagcc gccgtcgcat tggccttcca ggtaagcagt aacgttcacg 60

gtatcggtcg tcatgaagcg caacccccgc gtcacgagct cccgccggaa gtgccgcaag 120

gcgcacttca cggccccgtc ctacgtccgc cgagtgctca tgtccgcggc gctatcgacg 180

gagctccgcc acaagtacaa tgtgcgttcc atcccgatcc gcaaggacga cgaggtgcac 240

gtcgtgcgcg gcacctacaa tggccgtgag ggcaaagtgg tgcacgtgta ccgccgtcgc 300

tgggtcatcc acgttgagcg gatcacccgc gagaaggtga acggctccac cgtgaacgtg 360

ggcatacacc cttccaaggt catggttaca aagctgaagc ttgacaa 407

<210> 35107
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B10

<400> 35107

atccagctca ctctccactg gtcgtttact cttgcagctc cacccttcac tcagtgttag 60

tgtgttatta gctataggct ctagctatcc gcgccactcc ttcgtgtatc catcagcctt 120

ctcatcgcca ccaatggcca ctgtcgaggt ccagaccccg accgtcttgg cctccgatga 180

agctcccgtc gtggagaccc cgccgtcagc cgtcgtgccc gaggagtctg cccccgccta 240

agccgatgcc gaagccgaag ctgctgctcc tgctgatccc gacgagctt 289

<210> 35108
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B11

<400> 35108

gcgctccact catcttttcg cgtttagtac ctttaaaatt tcccccactc gccagtcgca 60

gcaggacctg tagccatgga cgccagcgga gccggtagca aggggaagaa gggtgcggcc 120

gggcgcaagg caggcggccc caggaagaag tcggtgacgc ggtccgtcaa ggccgggctg 180

cagttccccg tcggccggat cgggcgctac ctgaagaagg gccggtacgc gcagctcgtg 240

ggcactggct cccccgtcta cctcgccgtc gtcctggagt acctcgccgt cgaggttctg 300

gagttggcag ggaacgcggc gaaagacaac aagatgacgc gcatcattcc gcgccacgtg 360

ctcctggcga tccgtaacga cgaggagctc gggaagctgc tggcaggcgt caccatcgcg 420

cac 423

<210> 35109
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B2

<400> 35109

tcgcccgctc gtacgcccac tcctccgatg agtttgatta gagaaggttc agtccctttt 60

agggtcaggg caagtttcca tgtttctatg tttattacca ggaaaataaa cagtccacac 120

gaccatgcat cggagtggta aacctgaact ggtttttgcc tgttcagcgg aagctcaaat 180

ggcagaatcg caacaacagt agcatcggca gctcaaaaga acccgcgtgg aagctcaaat 240

ggcccgttcg gttgctgttg atgaggaagg aaggaagagt gccgtgcacc aattcgctcc 300

gagcaagaat caaatgtcat cgtaacttaa aacagattgt tcacat 346

<210> 35110
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B4

<400> 35110

cccactcgtc cgcttctaca ccgtgctgtt tgccctttgg aaggtggaga tcctgaggtg 60

ggctgggtcg ccttactccc agagcagccg ggaggaggcc ttcatggaca tggtccggtg 120

agactgatgc ggacgatgag aggggttggt tgctcggcgc cgtttacgct cggcggtgag 180

ctggtggcct cgtttcgtcc ttacccagag ccttctccac cgtgctgaac gatctgaagt 240

atgctgacac tcatgaatgg gtgaaagttg agggtgattc atcaaccgat gtgattactg 300

accatg 306

<210> 35111
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B5

<400> 35111

ctcgtgagaa gattgacaaa aaagtggact tccaatcaat tcttgatttg aaacgattgg 60

ttagtgactc taaaggaaca gattttaaat acagccttta tggtgtccta gtccatacag 120

gttggagcac tcaatcaggc cattactatt gctacgttcg tacatccagc gggatgtggc 180

acaatcttga tgataaagag gtgcgccaag ttcgtgaagc agacgtattg aagcagaagg 240

cttatatgtt attttatgta cgtaacagta ttgggaagtc ggtggtgtgc aaagataata 300

atgctgctaa tttgctcaag aagaaaacct ctgaaaaaat ctcaagtttg aatggtattg 360

cacaaaccaa tgtaagagca caaaatttga atggtgtgtc tccatttggt gataagacgc 420

acggcacaat cattggctac tctacaattt 450

<210> 35112
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B7

<400> 35112

gcgcccacgc gtccgcccac tcgtcctctc actcgtccgg ccactcgtcc gatcggggac 60

tggatctcct aggtctgatc tccagcttct gagaatggga cctgatggcc acattgcgtc 120

tatcttccct ggccacccta ttgttaacga caaagagagg cgggtcacat acattaagga 180

ttctccaaag ccacctccag agagaattac attcacgttt acagtaatca actcatccgc 240

atacgttgcg atggtcgtga ctggagctgg aaaggccgca gcggtgcaca aggcgctctc 300

atacaagcaa acctcgtcag acctgctgcc tgttgagatg gctgtgctgc aagatggaga 360

cttcacctgg ttcactgata acgcagtagt gtccttgctg cagaacatgt atagtcc 417

<210> 35113
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B8

<400> 35113

cccggcccga cccactcgtg cgcccgctcg ttctcccact cgtcctcaca ctcttcatcc 60

aacgcgacca atcgagggat cgctctaatt gaaccgagct cgagccccag acaatggaac 120

cagataccca cacaacatcc atctacccag gccaaccaat gggcaactac aaaacaagac 180

tcaccacata cattaacgac cctccaaatc acccatcaga cacaatacaa tcacctacac 240

acaaacaaca cataccaat 259

<210> 35114
<211> 372

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B9

<400> 35114

tcgcccacgc gtccgctaga tcgcgtattt cctgcatgtt gtgtaatatg cctgtgctca 60

tggggtgtaa attagaacat aaaaatgttg taatttttgt tttcttgcct acaaattccc 120

acttgatttc ttatctgggg tttggctacc gtatatttgt attcgaatgt aacgcacttg 180

tgtatttttg tttttgggtt tattacattc aacaaggtca gaactgtatc gtagaaaaaa 240

aaaaaaataa actataaata aatttttttt ttttactaaa aaacaatata tctaaaaact 300

tacattagcc acatttctat attttttta aaaaattaca atcttaattt caatattaaa 360

taaatactta at 372

<210> 35115
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A2

<400> 35115

ctcgtatcgt cggagaacca ccgaatccat cgcattgcag agacgagtag aggttagatg 60

tatgctgagg taagatggtg tgcatccggc aggcgaccat cgaagacctg ctggcgatgc 120

atgcgtgcaa cctgatgtgc ctgccggaga actaccagat gaagtactac ttctaccaca 180

tgctctcgtg gccgcagctc ctcttcgtcg ccgaggacta cggaggcagc atcgtcggct 240

acgtgctcgc caagatggag gaggacccct ccgagccctg ccacggccac atcacctccc 300

tcgcggtcct tcgctcccac cgcaagctcg ggctcgccac taagctcatg 350

<210> 35116
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F8

<400> 35116

gtcctgacta aggtgcttct ccgtctcatc ttcactactg gcggcctcat cggggtccgg 60

ttgtgtcccg cgtcctgcct tgctcgtcct cctcattcca gcagcaacta caactactac 120

tgcgactggt gccctcgccg ttccaccgcc tcccccgacc tcgacgcgtc gttgctgcgt 180

tcttgtggaa ctagtagaga cggcgacgac ggtggcttct gctgcgggta cgggtacggg 240

gctgcggagc agctggacgg aagtggagct ccccacgtcg ccgtcgcggg cgccgactcc 300

ttcttccgcg ccggcgccgg ctgctgcgcc tgctaccagt tgaggtgcaa ag 352

<210> 35117
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G10

<400> 35117

aagggacgca ggcaacaatg atttgcacag tagcatctgc aggctgtggg ccgttcctcc 60

gggaatggca cctacactgg tgggaccggg actcgcttgt ttattctaat cctgtgagat 120

cttcacgctg gaccagctgg tctgtcacgt ctgtctgcat ccagtgtagt cccatgtggg 180

tagcatcagc atcttcttgt gcatcacaca cccatgctac cccctagtac tgctgtgcat 240

atcatggtca tggaggagca gctacctata tgggctggta atagtcacta ctactaatta 300

atgctaaatg catcatgtaa cgcaacgtaa taggagagca agcgctataa tctgatgctt 360

gctgctgcca tctgctgacc tttggtttca tggt 394

<210> 35118
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G11

<400> 35118

cccacgcgtc cggaagcccc tcaagttcga cttggcatcg gcttaaggtt gggagtgttc 60

acggtggaga tgaggactac cttcctctgg ctctgctgtt acctgcaagc attgctgctg 120

ctggatgtgt gtgtttgata agtgactggc tgctgctcca tagaagatga acggagagaa 180

ggatgatgaa gaagggcttt ggcaatcgcc gctgcaactg caacccatgc catgccggct 240

tagtgattgg gtataatttg gcttggcagc agccagcatt attatgtgct gatcttttat 300

ctttactagt ttggtcgtcc gatatctttc tttctttctc ccccccccc ccctttcga 360

ctctgtactg aaactgctga gagattcgca gtattggtgg atcgtattcg tatgctactg 420

tt 422

<210> 35119
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G12

<400> 35119

cgggccatga gagtcgtcag aagctgatgc aggataagag gtcgaaacag tagcaggtcc 60

aaaagcaggt ctgggacagt gggaccggca tttctgtcac tggaagcgag caacagcagg 120

aagctgctaa tgggaagccc aatccgtctg caccagcacc aaacggtgtc cctgcagagg 180

tgaaggcagc gaaggcttct gcagagaacg gcaccgtcac tccagctatt tcctacgcgg 240

caaatgtggt ccaagcagca tcagagaaac ccgttctcgc caacggag 288

<210> 35120
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G2

<400> 35120

ctcgagtccg gccacaccaa gtgcatctct gactatatca aggttaacgc catggccgtg 60

cgcgagtacc acatcgtcag ccccgacccc aacttccccg atgcccagct ccccgaatcg 120

caccgcatct ccctcagggt gacgtcgccg tacgggaaca gcatgcacta cgcggagaac 180

gtgcagtcgg gccacttcgc cttcacggcg gcggaggccg gcgactacct ggcctgcttc 240

tgggcgcccg accataagcc accggtcacc atcgggttcg agttcgactg gaggagcggc 300

gtctccgcca aggactatcc cagcgtcgcc aagagggcaa ggtcgatatg atggaattgg 360

agctgaaaaa gctagaggaa actataaaaa tatacatgaa gagatgttt 409

<210> 35121
<211> 300

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G5

<400> 35121

cccacgcgtc cgggaggata caatggacgt ttcagcaatg aggtttatac acttagcctc 60

gaatcagatt ttaagtccac cacaaaagaa gaaactgtct cagatctagg gtcgtcgaac 120

cagaggttga aatggtgatt ggcgtggaca gtgctgattc agacctgaag aacagtagta 180

cagtactgat gaagcaagtg aacagttctt agcagctctc aaagctgaga aagaggaact 240

agaagcgaca cttaacacgg aacagcttga aaactgtaca acttaaggaa tacattgctc 300

<210> 35122
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G6

<400> 35122

gcgccggcct ttttttttt tttcttttga attttggaca ttttctctct cgttgcggat 60

gggttcaatt aataaatagc tgtacatgct tgcctcggac catagctgca gaagcaactt 120

gttctaagtt aaacttgctt cgttgcttgt acttgacaca tttgctgaaa catatataca 180

caacctctcc caccatgaga acagagcttc ctcaggtata acttcccttc ctcatcattt 240

ctacaaactc ttcgtagtcg attctcccat ccttgtcttt atcaacttcg tccagca 297

<210> 35123
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G7

<400> 35123

cccacgcgtc cgcccacgct ccggacccac tctttcgcgg acgcgtgggc ggcgtgcttg 60

ggatctcaac ccaagtcgtg cctccgctcc ggtcacccgt cgctccacgc aaccatgtcg 120

aggaggaaga ccagggagcc caaggaggag aacgtcaccc ttggacccac tgtccgtgaa 180

ggagagtatg tctttggtgt cgctcacatc tttgcatcct tcaatgacac cttcattcat 240

atcactgatt tgtctgtgag ggaaactctg ggtcggatca cccgtggcat g 291

<210> 35124
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G8

<400> 35124

cccacgcgtc cgccttcacc caatcgattt tcctagcgag cggcagcggc ggcggccagg 60

ggagatgatg gtgcgcaagg cgaaggttga gttcgacgag cagtcgccgg ataacttcga 120

cccgaagaac ccgtatgccg acccggtggc gatgctcgag taccgggaac acctggtgcg 180

agagaagtgg atccagatcg agaccgccaa gatcattcgg gagcgcctcc gctggtgcta 240

ccgcatcgag ggcatcaacc accaccagaa gtgccgtcac ctcgtcgacc aatacctata 300

ggctacccgc ggcttgggtt ggggcaagga tgctccgccg cctgaacttc acgagcccaa 360

gaagaccgtc aaggctgagt agcggcgctg gtgccttgct tctcgtgctg ctgttcctgg 420

attggacagg tgatctgacc ctttcattga 450

<210> 35125
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G9

<400> 35125

gcaagaaatc caagctgggc ttcactgcgt atccatctcc ccaggtgtca acctgtgttg 60

tggagcctta caacagcgtc ctctccactc actcactcct ggagcacact gatgtctcta 120

tcctgctcga caacgaggcc atctatgaca tctgcaggcg ctccctcgac attgagaggc 180

ccaactactc caacctgaat cgccttgtgt ctcaggtgat ctcatctctg actgcttccc 240

tgaggttcga tggtgccctc aatgtggatg tgaacgagtt ccagaccaac ctggttcctt 300

acccgaagat ccacttcatg ctctcctcct acgcaccggt gatctcttct gcgaaggcct 360

ttcacgaaca gctgtctgtg gcggagatca ccagcagcgc gttcgaaccg gcttccatga 420

tggtcaaatg 430

<210> 35126
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H11

<400> 35126

tcgcacgcgt tcgaaaaaaa taaaaaaaaa attataaatt acaaaaaaaa aaaaaaaaaa 60

aaaagaacac ggtttaaaaa aatcctggcc cactcaaaac taccaaacct tactttccct 120

agcatacaac ttcatatcct attctataat ctcacctaaa ttcaacacac tgtcacacgt 180

ttaacacctt caaaaccgta aaaacaccca ccttacccaa cttaatcacc ttgcaacata 240

ttccattttc acaaatttcc ataataccaa aaaatcccac acttaccaac 290

<210> 35127
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H2

<400> 35127

aaagtaaggc gatcagagat agcaaccttt tacttctttt acatgatccc agccctgctt 60

cttggctcca agaacagcat aagtacctcc cttctggtcg gcgccgtgtt ccatcaagta 120

tacatgttcc acaaggagat tcttctggac tacgtgcacc atgatatcac cagaaagtgg 180

gctttgattt acttcaagct gcttttgctg gtgatggcta aggacaccat catgtacttc 240

aatctgtt 248

<210> 35128
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H3

<400> 35128

cttggtccaa gggttttgtc gattcgaggt ttagatttag tcaaatgcta gcgcacttag 60

gagtactgac ctaaggtatg ccatatctaa cgtacttcca aaatcttcgg gttgatcctt 120

aaccagctgg tttagctctg gacgatatgc catggcaaac catttcataa gaaactaatt 180

ccaatttgac tcttaaagat gaaactgaag aagtaaaata gggtcatgga ctccgaggga 240

tcaaagctat cattcgcttc cttgcaaagt tttatggatc ttatagact 289

<210> 35129
<211> 56
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H4

<400> 35129

aaaggaacag gaacatagac agcaacccat acaatttaga acaagaaccc agccca 56

<210> 35130
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H6

<400> 35130

acccacgcgt gcgcgccgaa ggagaccaga tggtggttcc atgacgacac ggtgtaattg 60

agcgccggac aggcttcctt gctgtggtat atctcgtcaa ggggagattg gggatgattt 120

aggcctattt gtaagcatcc ctctatcgga ttgcgaagct taccttgctg tggtggtgtg 180

ttaaatgagt tgcacacatg tgtcgagtct gagaatacat attaccatca tcaatgatat 240

aagtaatata gaataagcat gagtgtaaaa aacaatgtat atattcatta atctcttgcg 300

tgtgttggtg ttttcagca 319

<210> 35131
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H8

<400> 35131

cccacgcgtt cgcggacgcg tgtgtgagtt atgtgtaaac acactgaaga aggagtgggg 60

ccctatcctt ggattaagac atgttcttct ggtagtgaga tgccttctga tcgaaccatt 120

tgctgaatct gcacttaatg aacaagctgg gaagatgcta ctcgaaaatt atgaggaata 180

tgcaccgcat gcaaggttat acactggcat ccatgccctc 220

<210> 35132
<211> 126
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F7

<400> 35132

cccacgcgta cgcccactcg tactttcact ttttggctca cgctttttct cactaggtgg 60

gtttatttta acatgaatct atccacattt tcttagcaca taaattacat aatcattata 120

cacaaa 126

<210> 35133
<211> 73
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H9

<400> 35133

aaaaagaaaa aaaaaaaaat aaaaaaaaca attttaaata caaacaaaaa aaaaaaaaga 60

acaagaccgg gtt 73

<210> 35134
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A10

<400> 35134

gaagcggcca ccactgtgac tccgtgacct ttctgccctg ctgcacagca catcacacac 60

agcccgcaca ccgcaccagc tcagctcagc tcagctcacc aagacaatca atcatggctc 120

gcccgcgcag tgtcgctgcc gctgcccccc tcctcctgct gctgctcgcc gccgccgcag 180

ctgggctcgt gtccgccgcg tcgcctgcag ccagcgactt cgtccgcaag tcgtgccgca 240

cgactcagta cccgtcagtg tgcgagcata gcctggcgtc gtacggctgg tcgccgtcgc 300

cgcggagccc gcggtagctg gcgcgcgccg agctgtcggt gagcgcgtac cgcgcgcgcg 360

ccgagtcggc gtacgtgggc cgtctgttct gcgccagcaa cggcaaatg 409

<210> 35135
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-009-Q1-K1-A11

<400> 35135

gcgagaagat cagccagtgt tggcgattgg tcatcaaatg ataagacaac gtctactggt 60

catggaagga atgaactctg caatagctct gtatctacat caattctgat tccgcatctt 120

caaaaccttg cgaagcaaac tgcactccag caagatctga ttacgaacct actaagtagc 180

ttgcaacaaa atgagagagt cgatgcagct cagtcatcaa gagttcagag cacgacgagt 240

gatacagtgg ttgaagctgc tactgctgac agagaacact cgttacttgt taaaattttt 300

gagttacaat ctaggatgat ctctttgact gacgaattaa ttgcggcaaa gctganacat 360

gttcagctgc aggaagagct aaatgtactc tactgccaag aagaaatctg atttgagaga 420

ggacgagaac gaagaagcat gatgc 445

<210> 35136
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-009-Q1-K1-A12

<400> 35136

atccgatgat gaaaagcctg aaaatctgga ttcattgatc gctgctgtta acagcagcga 60

tggcagtctc attgttcatg tccgtcctgg tgaaaatgct ctctctgatg tcctcctaag 120

cactcctata tttactggtg aagaaggtgg aagtggtttt gctgcttctg cagcagctgc 180

cgtagctact ggagcatctg gatttgaatt tggtgtggac ccaaatgtag atccagagtt 240

ggcactcgcc ctgcggttgt ctatggaaga agaacgagca acgcaagagg ctattgcaaa 300

aaaggctgca gatgatacat ctaataccga aaatatcaat gcctcaagct caaacagcga 360

ttctgttatg gctgaagcag aacttgcctc anatgctgct gctggtgaca agcaagaaca 420

gcca 424

<210> 35137
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E10

<400> 35137

cccacgcgtc cgaccataat gactatatac ttggatcttg taaagccatc cccattacct 60

gagatctgga agttggctga aattttcaca actggagttg tccttggtgg atatcaggca 120

atgatgactg tcatcttctt ttgggctgca tacaagacaa acttttccc aaaaatattt 180

catgtggaaa gccttgagaa gacagctcaa gatgatttcc aaaagcttgc atctgctgtt 240

tacctgcaag ttagcaccat cagccaggcc ctcatcttcg tgacaaggtc ccggagctgg 300

tcatttgtcg agcgcccagg gtttctattg gtctttgctt tcttggttgc gcagctgatt 360

gccacactga ttgctgtgta cgccgactgg gcgttcactt cgatcaaaag cattgggtgg 420

ggctgggctg gca 433

<210> 35138
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E11

<400> 35138

cccacgcgtc cgcccacgct tccgggccga ttccggtttg aaaaccaagc cgttgaaaac 60

ggggaggggg ctgttgaaga aaaccttaac aattaagcca aagccgaagg ccctaccaac 120

cttgccctcg gggttctaca acgccttcgt cctgagggga atccgcgtcg tccaggccct 180

ccagcccgga acactcctct gccact 206

<210> 35139
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E12

<400> 35139

ggaagacccc atggattgtc aatccagagt tttaggatta cccagaccta tatgttctga 60

ggcctttgca gtatgtgggg attgaagtat ggcaggtcaa agctggttca gtttttgaca 120

acattttgat ttgcgatgac ccagactatg caagacatgt tgtagatgaa acttttgctg 180

caaataagga ggctgaaaag gaggcctttg aaggagctga aaagaagagg aaggctagag 240

aagaagagga agcacggagg gcacgggagg aaggggagag acgaatgcgg gagagggata 300

gggaccgcgg cagggaccga tacaaggata gatataagcg tcatatgcac tacgactacc 360

atgacgagct atagatcctg tattcttttg aaatctgcac gatattggat gtctgtctac 420

ggagagcgca cg 432

<210> 35140
<211> 343
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-008-Q1-K1-E2

<400> 35140

cccacgcgtc cgcccaattt actatgttat acccttggc ttccgatgag gtggccgagg 60

cgtgaggctg acggttgtgc tggtagtccg caaggaaccg gatttggacg cgtctctcct 120

tggcactaag tttggcttca aaagggataa gtcatcaaat ctcctgagac agtacttcag 180

caactgcacg atcaactgag tacacgtnct tttttcacag tcagggtggc aaagaaatgg 240

cttgaatttt agaatgagac ggcatgggca atatggtgaa gcggatatta actccatggt 300

cgttgcgagt tgcatcacta ccaggcacaa caaagggttc aga 343

<210> 35141
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E3

<400> 35141

gacctgttca aggccgctgc ggtcgactgt tccgtttccc tcttttgcaa ggtgcctccg 60

gcccggcttc ctcggaagaa cttcccgaac caattaagga ccttattcct gaataccggt 120

ccgccgttac caaaccggcc cc 142

<210> 35142
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-008-Q1-K1-E4

<400> 35142

cccacgcgtg cgccgtcaca actcacaact cgagttcccc aaacccgaag cagcacgagc 60

gccggtgacc ttgctccggc tccgatcaag gaaaaggaag atgagctact acggccagca 120

gccccccgtc ggcgtcccgc cgcagcaagg ctacccgggg aaggacggct acccgccagc 180

ggggtacccg ccggccggct acccccccgcc ggcgcagggc tacccgtcgc agggctaccc 240

gcagcagggt tacccacagc agggctaccc gccgcagtac gcgcagccgc ctncacagca 300

gcagcagagc agcgggcctt ccttcatgga aagatgcttg gcctgcctct 350

<210> 35143
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E5

<400> 35143

caagcagcaa gtcgatcgtg agcatctagt tcttccctgc tcatcgtcgc cagctggtcc 60

gagggatgag gaagaagaga tagatggacg acgtcggcgg tgctgctgct ggtggtggcg 120

attcaaagca gctcttggtt gaagcagatg ggaacacacg cacgcttatt ttgaacaggc 180

cgaaccagct gaatgtactc tcctctgcaa tgattaaggg actcctgagc tgtttcactg 240

cttttgtgaa agatgatgga gttaaattgt tgattatgaa cggttctgga agagcatttt 300

gtgctggagg tgatgttgtt gctggtgtcc agtcaataaa taatggatgg aaatggggcg 360

ctgatttctt ccgagatcaa tattctttaa actacataat tgcaacatgt atcaaacctc 420

acgtttctct tcttactgga attgtcat 448

<210> 35144
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E6

<400> 35144

gtggaaggag gatgcatcca acatcttttt tcgtggtcac tacaccattg gcaaggagag 60

tgttgacctg tgccttgatc gcatcaggaa gcttgccgac aactgcactg gtctccaggg 120

cttcctcgtc ttcaacgctg ttggtggagg aacgggctct ggccttggtt ccctcctcct 180

agagcgcctg tctgttgact acggcaagaa atccaagctt gggttcactg tgtacccttc 240

cccccaagtt tctacttcgg tagttgagcc atacaacagt gtactgtcca cccactccct 300

tctcgagcac actgatgtgg ctatactgct ggacaatg 338

<210> 35145
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E7

<400> 35145

ggagcgggta tggccggtac ccctttagtt tatatggttc tgttcaaaca tctggggttg 60

gccaaatgta atcggctcac atttcattag ctgtagctgg tgcatcggca gttgcggttc 120

ttagcactgc cgttaatgct gcctcatgtt cttttatttc agatgaggct tattgaattt 180

ttagctacat gtcgtttcta ggggtagctc gattcgatgt agcgaaaaaa agttagatta 240

tgtctatatg catgtgaaat tttagag 267

<210> 35146
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E8

<400> 35146

cccgcgcgtc cgctcccttc aacttcccgt tggattttct ctttgaaaga tgtcgtgggg 60

gaacaatgga atgaacatgt cagctcgtta tcaattctgc cagaagcaga ccatgttcag 120

acacttgttg ccaccctccg aactggccat gcagttgcag gtgtacaatc tgtgatacct 180

gcagcagaca atacaggatt accagagtgt aggggagaaa tacttggcaa gctaataagg 240

attgggctat tacagctcat cagcagcatg gagggtgtag aaagggaatc ggttcctgag 300

acctttatgt tgaattggtt gaagctgcgg tctgttcaga gtaaggttca acaagtgatt 360

gtgatagcca caagcatgct ttgtttgcat cacgtgttag cgagtgagaa cccaaagatc 420

acttcttctg 430

<210> 35147
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E9

<400> 35147

gtgttgaatc agtatcttga ggagaagact gtcctatata gagttattaa tagagataaa 60

cggacaggag cacgtacaaa gttatcccga gtaaaaattc ttcatgagtg tcgactgctg 120

cgggagcggc tacaagactg cagtgctaaa tttctagcag aagaacaaga caactttact 180

attgatccat catccttgcc tgatgcatta gatcttctag catcatcaga caatagaata 240

cgcctactcg ttgctgaggc tcaacttcta gcacgagatg atgaacaagg ctcttctgat 300

ggtggcgacg attctgatag tagatcctca ttaactatga gcagtgaaga tgcaaaagtt 360

accgatgaag atactactaa aatgctttct gatctgctca ttgacaatgc gcatctgaga 420

ctacgcctta atgctgtc 438

<210> 35148
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F1

<400> 35148

cccacgcgtc cgcggactcg tgggcttctt tatagtttat gctacttcaa gtctgcattg 60

gatggagaat ccaagttgca gatactcaat ggcaattatc gtatccctga gcaacccaag 120

tatagcactg ctgtcacagg gttgatcaaa gatatgctgg aagcctctcc aaattccaga 180

ccagacatca cacaggtctg gtttcgtgtt aatgagctac tgccgcttga gttacaaaaa 240

agtttacctg acggaccttc gccagccgtt tccttgaagt tgcaagatga aggtgctcat 300

aaaagggcac atgttatgcc taaaatgaac ccttcttcat cttcaagaga gcaatctaat 360

agttctctat cgcatggaaa ctcaaaagca agagatgcac ccttaggtgc attttgggca 420

acacaacatg cacaaagtgc tc 442

<210> 35149
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F10

<400> 35149

gcacaggctg agtcttgact tgcctctaca ttatgcgctt ttgctggtta tagtcggtac 60

gggtaaccgt tttttatcct agtcctataa ggctataaca taaggcgcgt gtgtcatctc 120

tagacatgcg tacatcgatg tagtagtata aagagaatta aatatattcc tcagtctttg 180

aactaaaggt ggttatgcct tatatactta tatactggga ctgagggagt atatttctgc 240

agacaatatg ttagctatga tcaaaccttg aatctcatgt ctaattgaaa gcatctctta 300

accaggaaaa ggatgctagg gacattgaaa ttcctaatat cagatgggac gtctttgaac 360

tcatgatgag atttatctat acagggtc 388

<210> 35150
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F11

<400> 35150

atggagatga tggatctgca tcagacattt gttcatgtgg tgtcattctc tatgttttaa 60

tggctggtta ccttcccttt gaggagaatg accttccaag tttgtatgaa aagataactg 120

cagctaagta ctcatgccca tactggttct ctccaggagc taagtcattg atccagagat 180

tacttgatcc aaatccaaga actcgtatca ctattggaga ataagagca gacccatggt 240

ttgagaagaa ctatgtagct attagacgcg gtgaagatga gaatgttagc ctggatgatg 300

ttcaagctgt ttttgacaat attgaggaca agtacgtatc tgaggaatta actcacaagg 360

atggtggtcc tcttatgatg aatgcctctg agatgattac gctatcttaa ggtttggatc 420

tctcaacg 428

<210> 35151
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F12

<400> 35151

cggacgcgtg ggcggacgcg tgggcggact cgtgggcgga cgcgtggggt ctcctgaaac 60

attgcagcaa ttaatttcat tccagcagtc tttgatgtca caacttggcc aacaacaaac 120

tggacaggag cggacacaat cagcctctgg tgcaggcaat gtgaacctca acaccttgat 180

gaacatgttc agtgggcttg gtgctggtgg tggcctaggt gttccaaatg ctcctaatgt 240

gccaccagaa gaactgtatg caacacaatt agctcagctc caagaaatgg gttttttga 300

cacacaggag aacatccgag ccttggccgc cactgctgga aatgttcatg ctgcagtgga 360

gcgacttctt ggaaacatgg gccaatagaa tatgatgacg aacataactg tgttctgatc 420

catgcgatct 430

<210> 35152
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F2

<400> 35152

cggacgcgtg ggctgattct gtagctacaa ttgactcaga ctcagatgaa gttaacggga 60

gagggaatgg ctgcaacggt gtgggaaaag aaatagatta agatagcgct gctattggac 120

aggactggac caggaaaagc atggatcagt gcactattgc gtacacatag aaggaactaa 180

cgattaatat tgaacgtgta gtgaaacgca aaatcacatg ggtatcaaga ggcacgctag 240

gtgaaacatg tgtgtcaaat ggctgtcttg tcacaaagat acagatgaag aagtgctaac 300

tcactggaga aataactgcg tatgaggaat tcttaatcac cata 344

<210> 35153
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F6

<400> 35153

gtgatttcca agaagcactt ttctggcttt tgctgcctca agctcttcgc cacttcctgg 60

gtaaatcaac aagtagatca agagagaaga tctcacaatc aagtttacat cctgattctg 120

aacaaagctc cagatttaat cggatagctt caagagagag atctgcttct gaaaagttca 180

cgaaaaatgc tgcgaattat ggccaattaa gctcaatggc atttaatcaa gagcaactat 240

ggttcaatgc aagtgaaagg ataccttggc atgacaagct cgatggtgaa gatgctttgc 300

aaaagcatgt tcatga 316

<210> 35154
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E1

<400> 35154

cttcgacagg gacccagagg aagcaaagga tctaggttta ggaagtttct gccgcccctg 60

agtttggggc aatcactgat taccaaggag ctgatcagtg gggtggtgac cagtggacct 120

ctgatgtgac tgcgccgcct gttgctccta ctggtgctga ttggggtgct gctccagctc 180

cggttcctac cggtgatggc tgggatcaag ctggggcccc tgcacctgtg gtggacggca 240

ctgtacctcc tctggttgct cctactggtt gggaccaagc agccccgaca ccgactgccc 300

aaagctggga gtaggcgttg tccactctga gacctgtctt ttgcgggtta aagttcagta 360

tttttctgtg ggctgaatgg tcaaatttcg ggggcatctt ctttagcctt gctttgtttt 420

gctttgaaca cttgtgtttt acgggtttct agctg 455

<210> 35155
<211> 436

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B8

<400> 35155

cccacgcgtg cgcccacacg tcctctttct gtttaggaaa atggagtact tgagggagcg 60

cgctaactgt gcctcgctgg tattctggag tctggacgaa gctacagacg caagagtcat 120

ctgttgatgt tgactaatgt gagtgaacta gacgagactg actttggtat atagtggcct 180

cgcagtattg aatcagcacc ttctacgtag gacgtacata cagcctgtag ttacctctct 240

tctgggaaat ccaatggcag gttattagtt tgacccatag cgccacactg atcaggaatc 300

gattcgtata tagtgaccag cgtgatcaag aactaacacg gatgccgttc tgaatacaat 360

aatacgtaca acccattcgt gctacctgca atataattgg ataagtcctg ccagtctggt 420

tcactactgt aacata 436

<210> 35156
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B9

<400> 35156

ctctggcatc gggccagtgt tttgagaagc tggtcggttc tcctagatcc cttcgcctct 60

ggctcgtgcg aagctaggta gccgccacca tgagccgctc ggggcagcct ccggatctca 120

agaagtacat ggacaagaag cttcagatta agctgaatgc aaaccgtgtt gttattggca 180

cacttcgggg attcgaccag ttcatgaatc tggtgatcga caacactgtg gaggtcaatg 240

gaaatgacaa gacagatatt ggaatggtgg ttatcatggg aaacagtgtt gtcatgatcg 300

aggcactgga gccagttgcc aagtcgcagt gaatccttat ttttcagctg atatagtcgc 360

agcatgaaaa ctgatgtaaa tgctatgagt gaaccctgtt gtacttcgga ctcgtgcttt 420

tgcacagcaa cataactcg 439

<210> 35157
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-C10

<400> 35157

cccacgcgtc cgccacttca aggcgtgcat gtctgcggag atgcagctgt gcgacgtggg 60

cgcgcgcgtc atcttcgccg tacaactaca accacttcaa ggcgtgcatg tcggcggaga 120

tgcagctgtg cgacgtgggc acgcgcttca tcagctggga cggcgtgcac ttcacggagg 180

ccgccaacgc catcgtcgcc gccaaggtgc tcaccggcga ctactccacg cccagggtca 240

ccatcgccaa actcgtcaac tccacgctgc ccaacgacga ctagctggct ggccgatcga 300

tcgatcgatc gtcgtcgtcg tcattctgat aaacatactg caggctgcag gcttcatcga 360

tccatatcca attgtccgta gaaatctacg actagctcat tggagatctg taatgtgggc 420

taagagatg 429

<210> 35158
<211> 328
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-008-Q1-K1-C11

<400> 35158

aggaggatct ggctaagatc gagaaagaac ttgaattgga gattgccaaa agtgacctga 60

gggaactgaa naaggaatgt gttgaggcaa tggagactca actcaagagg gaggagttcc 120

aagatgagga gatgcctgat gtcaggaaac tggacatccg aaacttcctg taggcctgat 180

cgacgataac ctttgaggca ttgcaaatca cccagcccac ctgtgattnt tcttcttttg 240

gttttggttt caagttgatc cgtgctgtaa gctacaccta tgaatgctgc tccttccttt 300

ttttgaataa aaaaaactgc accgaggt 328

<210> 35159
<211> 260
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-008-Q1-K1-C12

<400> 35159

cccacgcgtc cgcccacgct ttcgcaagaa tttatcgata agaatgctgt tacgatttca 60

aaggtggcgc tacatatgca tctgcagcta tggagtangg atttgttcta gccactattg 120

cccttatttt tcaatatgtg gaaaggtgtg agttacaaag gggaaactgc ttccacgaaa 180

gagcccacgt tctctgagag ctcttcagtg atctcaaaac ctgtgccttt taacgcccat 240

atcaaccaga tcattcccga 260

<210> 35160
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-C2

<400> 35160

cccacgcgtt cgcccactcg tccgcagagt ctcctttatc tgctggcccc aaaaccctag 60

gttagtggga gccgccgccg gcgccgtggg tgctgatcct tctccctcgg aggctgccgc 120

tacaccagcc agagaagatc aacagcacta cgccgccgtc gcgactggcg gagtttcggg 180

cgaatcgtgc tatgcagcgg cgcctcctgc tggtggaggc ggcgcagacg atgccgtgga 240

gcccgtggtc atc 253

<210> 35161
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-C3

<400> 35161

cccgcgttgt cgccgacgcg tgggtggact tctactacgc gggtgaaggc acggaccaca 60

gcggcgttcc aacaaaattg gtcacaacaa actgttctct gcacatagct gtctacaacc 120

ctgccacaat gtttggaatt catgtcactt ctggccccat ccacctgatg tattcagaga 180

tcccaatagc agtcggtcag gttcggaggt attaccaacc gaggaagagc caccggatgg 240

tgacggcggt catccacggc gagaaggtgc cgctgtacgg cgccgggggc agcctgatgc 300

tgtcgacgag cacgggcggg gcg 323

<210> 35162
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-C6

<400> 35162

atttaattcc ttgctttggt tatttagact catctactca tgaccaagat gtaggtgccg 60

tgtatcctga tgaaagacca tgcaatggtt ctcaagaagc tttagctcga tacagagaga 120

ttgtacctca tcttcgcctt tcgggtccta cgtcattcgc cccaattatt gaccttggcc 180

ccacccattg tggagcaaag tggtggccaa taccatgttt taagcaatta ttgcttacgg 240

gca 243

<210> 35163
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-C7

<400> 35163

gtccgcctgg ttccacttcc accactgcga tcactagcgc tacaccgaag ccacgttttg 60

tgtggtcctt caatacgcct actccgggct tcggattcgg cacaacgttt gccccttgct 120

cccggaaatc tttgcaaacc ggcgccgtta ctgtccggca aggcaacccc gtttttcggc 180

cggcgttgat ctggagatgc tcttttcacg gtgtttttt ttggttacac tccccccttcc 240

gtcctg 246

<210> 35164
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-C8

<400> 35164

cccgcacttc ctgcactcgc actttagaat gcactactca tccgcccgac gacgggctcg 60

gtcatactga tgatacaccg gcgcccatgt ttaaaaacgt cactaacttt agccagatac 120

taggcgcatc atccacaagc gacgagcaca cacgaattac tggccaatac atgacattgc 180

tcatgtcctt tgccgagcac cctcctttac cataccttat tgaa 224

<210> 35165
<211> 464
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-008-Q1-K1-C9

<400> 35165

aatttccggt cgaccacgcg tacgcccacg cgttcgcctg gatgatgagc agccttcact 60

gaatctnaag gataccggaa ccaagggtcc ggttgacctt attctaaagc catctgaaga 120

tgacctcaag tgctggccac attgttttga gttccgtctg agggcctctc tttcaaagga 180

tggggacttg tcattgatat cacgcatcag gaatgtcaat ggcaagccat tcagtttctc 240

atttgcttat cacacatatc tttctgtttc tgacatcagt gaggtcagga ttgaaggtct 300

ggagacactt gattatcttg acaaccttag ccacaaagaa cggtttacgg aacatggaga 360

tgccataaca tttgagtcag aggtcgaccg agtctacgtt agctccccaa atgtaataac 420

agttattgac catgagaaga aacactcgtt tgtcataaga aagg 464

<210> 35166
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D1

<400> 35166

gctgtctggt tcaagaccgg cgcgctgctt ctggactgca acaccctcaa ctacttcggg 60

aacagcgtcc ccatcaacct ggtggtggcc gtgatcgcgg aggtcatcct cgtcggcggc 120

gccgagtact accggatcac caacggactg gaccttgagg acaagctgca ccccggtggg 180

cccttcgacc ccttgggcct tgccagcgat cccgaccagg ccgccatcct aaaggtgaag 240

gagatcaaga acgggccggt tgcccatgtt ctcaatgttc gcctt 285

<210> 35167
<211> 357
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D10

<400> 35167

caccagctca agtgaggggg tgacccccca ttctccttcc tagcgctcct caccgccatg 60

ctgccaagaa tgcagagcat cttccacctc ggggaggagg gtggcgccgc cgccgtgcac 120

caccgcgtca gcgtcgtctg cgcggcgtcg tcgtccatgg ccatgggcgg cggcggcggc 180

ggccggcgtg ctcgcgagcg tgagcgcctc gtcgtggggc tccagatcct ggtgcaccac 240

caccaccacg gcctgcacgg tcactggcac gcgcacgctg cgaacgtagt cctgaagcag 300

atggtgaggc cgcgcgccgt cgcttgctcg cgccacggcc actgcagcca cgccttc 357

<210> 35168
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D12

<400> 35168

cccacgcgtc cgctctccac aagtccagat cttccattca cacacactcg cgcgcgcaca 60

gagacctgga cgcgcagcca aagcatccac ccatggcgcc tctcctcctg ctcttcctcc 120

tcggcggcct ctgcgccctc ttgtcgctcg ccacttcctc acgcgccagc gccaagaagt 180

gcgatgacgt caagagcaac ggcaattgcg gggactccgg cgaggaggca agatgcaggg 240

acgactgcgc gccagaggag acgcagcagc aggggaagat gcatgcgcgg cccgacccgg 300

agaaagacct gggcatcgta ttctccacgt tcgaccacga cggcgacggg ttcatcacgg 360

cggtcgagct cgaagagtcg ctgcgcc 387

<210> 35169
<211> 339
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-008-Q1-K1-D2

<400> 35169

gtggacttgc acagaattgg cagagctggt cgcttttgcc ggaaaggtgc tgtgttcaag 60

ttgctgtgtg gtcaaaccga taatgttgtg atgaagaaga tcgaggacta tttccagcac 120

agtgtgcctg aggttcggaa ttggcaactt gaagaagatt ttgaggctgc tctcaaggat 180

gcatgtttac tttaaagtaa ccaccgaaac ttgtggtgtt ttttgctgag cctgctgcac 240

aacgttattg agctctttct gctcttcctg tggcagcact gattnttacc ggtgattttt 300

ttttcgctga acgtgctgga caagcgtgct gtgctctta 339

<210> 35170
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D3

<400> 35170

acgtgaatac gattgattca cagacacttt gatgctctta agtcctggac caaccacagg 60

tgatcggtct agatgatacc ggactgcctg agacagcata ccattcaagc atgaagagcc 120

acgtagatct catgaaacac ctatacctga ccatactgct cagtggatga tcaactgtct 180

tcccaataat ctcactgcgt ctcagcacag agatcacttg cc 222

<210> 35171
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D4

<400> 35171

cccacgcgtc cgcccacgcg tccggctgat ccttttccag atcaaccacc gcaacgtggg 60

gaagctgctt ggctgttgcc tcgaggtcga ggtgcccatg ctggtctacg agtacgtccc 120

gaacggcagc ctccacgcgt acatccacgg cgatggcgac tgctgctgca gcggtggcga 180

ggccaagctg aatctggcac ccggcgcgcg ccttcgcatc gcggccgagt ccgcggacgc 240

gctcgcgtac atgcac 256

<210> 35172
<211> 154
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D7

<400> 35172

gtccgcacac ggccacacca cacttagctt tccccatcgc gcgcacactc tctcggtctg 60

gccctcccag tcccagcgtt tgcggtccag tccagagagc tcgagcagcc atggcggctc 120

ccctgttcct cctcctcctg ctgctggcta tgtt 154

<210> 35173
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B7

<400> 35173

gaccaacctg gttccttacc cgatgatcct cttcatgctc tcctcctacg caccggtgat 60

ctcttctgcg aaggccttcc acgagcagct gtctgtggcg gagatcacca gcagcgcgtt 120

cgagccggct tccatgatgg tcaagtgcga cccacggcac ggcaagtaca tggcttgctg 180

cctgatgtac cgcggcgacg tggtgcccaa ggacgtgaac gccgcggtgg ccaccatcaa 240

gacgaagcgc accattcagt tcgtggactg ttgcccgacg gggttcaagt gcggcatcaa 300

ctaccaggcg cccacagttg gtgccgggtt gccgacctcg ccaaggtgca acgtgccgtg 360

tgcatgatct ccaactccac ccagcgtctc gaggtgttct cccggataaa cagcaagttc 420

tacct 425

<210> 35174
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D9

<400> 35174

caaagttatc ccgagtaaaa attcttcatg agtgtcgact gctgctgtag cggctacaag 60

actgcagtgc taaatttcta tcactaaaac atgacaactc tactatcgat ccatcatcct 120

tgcctgatgc attagatctt ctatcaacat cagacaatag aatacgccta ctcgttgctg 180

aggctcaact tctagcacga gatgatgaac aaagctcttc tgatggtggc gacgattctc 240

atagtacatc ctcatt 256

<210> 35175
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-007-Q1-K1-A12

<400> 35175

acattcactt actcttttaa cttctttcca atatcaacat ttatatacta aaatatcctc 60

tttattcatt tttttctatt ttcatacttt aacaaactct aacaaatact taatcttaat 120

caccccacac actttcctaa tactatatat ctctttcacc ttctttattc tcatccttct 180

aattaaccaa cactattctc cataaattat catatttttc atatacaatt ttatcctata 240

ttttcttaat ttctt 255

<210> 35176
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-007-Q1-K1-F10

<400> 35176

tactcttacc acatatatcc aacattaacc aacaactaac atctaattcc ccactatact 60

ctaatacaat tccaatctca ctacacaagt cctcttatca atacccttta aaatcatcct 120

aataatcaat ctcaaaaatc ttaatcttta tacccttttc attatatata caacctcatt 180

ctctctacaa cacacttctt ccaaactaca cttatattcc acatacttac ttaacacatc 240

acccacattt cta 253

<210> 35177
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-007-Q1-K1-H11

<400> 35177

ttcaccacct cctaanaata attatgggac ggatcttttt aaaatattat cagcccattt 60

aacaacacac aaatactcaa cttcatcttc aaactactat aatttctctt ataacttcca 120

ctcttcacaa ccattacctc attcacataa aaaatattct tccaaaccat cataaatcaa 180

tacccattct acatctctaa tataatactt atttaaatac tcaccatctc taccattatc 240

ctcatctcca tctttttccc aatttaactc taataattat atcatcactt tctttcataa 300

tctatttttt tcactccaat attttatcac ctttcnctac ccatcaac 348

<210> 35178
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A1

<400> 35178

ccaggcgtcc gcccacgcgt ccgacctgtt ttgtttaccc cccgaaaatt tgccgtctgg 60

tcgtctcgct cctctccctg cgcagccccc agatccggca ccgcccgctc ctcgatcccc 120

gcaccccacg cccgcaggcc gggaccggcg gggtcgcgcg ccgggtagga ggaggagaag 180

aggaagggcg gtatggcggc gccgccggcg agggcccggg ccgactacga ctaccttatc 240

aagctgctcc tcattggaga cagcggtgtt ggcaagagtt gcctcctgtt gcggttctct 300

gatggttcct tcactacaag ctttattacc acaattggta ttgactttaa gatacgaacg 360

atagaattgg atggcaagcg tataaagcta cagatttggg atacggcggg ccaagaacgc 420

ttccggacta ttaccaacgc gtactaccga gg 452

<210> 35179
<211> 266
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-008-Q1-K1-A11

<400> 35179

cgcatggttt gttgtgtgga tcgcaccaga tttacaattt ccccaggact tcatgttttt 60

gtgacnatgg ttgatgtgtc gattaggccc tctcgccgcg gatcctcctt gccagctgaa 120

tgtcctttgg catgatggtc acacgcttag catggatggc gcacaggttg gtgtcctcaa 180

acaggccacc aaggcttgcc gtaagtctgc cctcaacact ggtcgactga agaatcctca 240

ccggtaccgc cctgtaactg ttgccc 266

<210> 35180
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-008-Q1-K1-A12

<400> 35180

cgagagaatc gtgagcagat cgtgtgacct gtctcttatt ggcgtcttcc gtaggcggtt 60

gcgganacgg ttgctgtggc ctgggccggg gccgttgctg gctgtttgtt cgttgcccat 120

cgatacactc ctcccttgcc ttacccgcat gcaatccgtg tgtgtgtgtg ctctgcctct 180

gctcgccggc gttggtttcg tgtgtcgcct gcctgtcgtc ctcaccgcaa cgctactcgt 240

taccagctat caactagcat tgccttctcc ttccgctaca agaatctgac gagcccccct 300

ccctaccgta ccgcgctgtt cccagctcgc tcctttccaa agtgtact 348

<210> 35181
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A2

<400> 35181

gtcctcccac gcgtccgctt actcgtgggg cggctcccct tttttcttct tttaaaaata 60

acatcgtctc atatgccaca ctctcgatca acaacaacag atcagttcat cttcaccatc 120

acatcctcct ccctctacca caaaaaaagg aaggggggaaa aatgaaatca tctcaacgcc 180

tgtacaaaaa atgccgcctt ttccacagtt gtccttgcca tgtcctacgc cgtaccgttt 240

tctatactgc tgtga 255

<210> 35182
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A3

<400> 35182

atcggctcgt ttggattcat tgccatctct atttgtaaag cgttcagtga atgttcaagg 60

agaacatcac tgatagacgt attaatgcat tctactcatc taaatgttac aggaatatat 120

gccttatctt gtactacttc cgatcttatg catgaacttg aacagaaaat cgtgaaattg 180

ccttctttaa aagttaggac tgcatgtgac gatgtttctg aaaaaaagga tctattatgc 240

acgctgtcta caatctgctt acagcttata cacatttaga atagaaagct tatcccatgg 300

gaaacct 307

<210> 35183
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A4

<400> 35183

acgcactgaa caggtatcca agatggatga gtttatcttt gagatccaac aggatttcca 60

ggagtctagg aaggatctga ctggtcttcg tggaacactg aaaacggtga ttgaagacag 120

ggacctgtcg tgtcaagagg tgaagtagct gagacgaaac atcatcatca tgctagaacg 180

aggatttt 188

<210> 35184
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A5

<400> 35184

cgcgtgcgga gagggggagg tcgacgagac atatagtgtt ggccaagagg cttcctctcc 60

cgagtccggc cttccgtgcc ctagccgagc cagccgcgag gaaggaggca tcccgccgtc 120

tcgcctggcg cccgcccgtc ggccgacctt ctgccgcagc ttccaattgt aaaaagatca 180

tacatttttg tgcaagagcg agtggatatg gaaccatccg ctcagcctat gggtgtcgct 240

gccggtgggt cacaagtgta tcctgcctct gcctatccgc ctgcagcaac agtagctcct 300

gcttctgttg tatctgctgg tttacagtca gggcagccat tcccagccaa tcctggtcat 360

atgagtgctc agcaccagat tgtctaccaa ctagctcaac agttcccacc acagc 415

<210> 35185
<211> 126
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A6

<400> 35185

cacccactcg tccgcccacg cgtccgaaaa caaaacttta aattttataa aaaataaaaa 60

aacacaaaaa gatacagaaa aaattaaaca aaaacaaaac caaacactaa acacaatctt 120

caaaaa 126

<210> 35186
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A7

<400> 35186

gacccacgcg tccgaaaaga aaaaaaaaaa aataaaaatt aaattataaa aaaaaaaaaa 60

acgacaaccg ggtcaggccg actttgcatt agtccaggcc catgcgaagt aataactatc 120

caatcgaatc acctaaatcc aactcactgt ccgtcctttt acaacacct 169

<210> 35187
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A8

<400> 35187

accactcgtc ctaagactga acatttggtt gagctcactg acgaggagcg taacgtactg 60

gctgttgcat acaagaatgt gatcgctgct cgccgcgctt catggcgcat tgaaccttcc 120

attgaacaaa aggaggactc ccataagaac aacaagcatg tgaaccttat caaagaatat 180

cgtgccaaga tcgaagcttt actgaac 207

<210> 35188
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A9

<400> 35188

cccacgcgtc cgcccactct tccgcagact tttaaactta cgcgtgcact gacaaggatg 60

agccactcga tctacctcct caccactggt gccacgaaca gctctttcat gaacatcaaa 120

accattgctg agtgccttgc agatgacttg atcaactctg ccaaaggctc ttccaacagc 180

tactccatca 190

<210> 35189
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B1

<400> 35189

caaagaacca agcagcctca ggaaggggat taggcttgta acatttgatt tttaccctcc 60

gacatgtgag ctcatgatac ttaagatgcc cctgtgtacc attactttct atagaagaaa 120

aatacttgag ag 132

<210> 35190
<211> 353
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-008-Q1-K1-B10

<400> 35190

ctcttgcatc tcgccagtgt tttgagaagc ttancagctc tcctagatcc ccncacctat 60

cgcgcntgtt aaactatgta gccgccacca taaaccgctc tgcgcagcct ccggatctca 120

agaagtacat ggacaaaaag cttcacatta agctgaatgc aaaccgtgtt gttattggca 180

cacttcagag attcgaccag ctcatgaatc tggtgatcga caacactgtg caagtcaatt 240

gaaatgacaa gacagatatt gtaatggtgg ttatcatggg aaaccttgtt atcatgatcg 300

atgcactaga accagtttcc aattccaatg aaatcttaat tttcaactta ttt 353

<210> 35191
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B12

<400> 35191

cggacgcgtg ggcggactct tgggtgctag ttggtatcta aagctctctc cctcctctct 60

tgtcatatac tcacatgctg ctatttttctt ttcagattga ggagatgcat cgtgaacttt 120

gcagcttggt aatatgcttt attccaccaa tgtctacgcc tcagcctcca ggctctgtat 180

ttaggtcctt tgtacaaagt ttggtgctca aagctagagg tggagatcat aggatggttg 240

tcaatgggac tttcaacaac actgtgctta tttcattgta cacagtaatc ctacatttgt 300

tgtcaaaaaa aaaaaaaaaa aatttatatt taaaattata aattaataat t 351

<210> 35192
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B2

<400> 35192

cccacgcgtc cggtggaagg cggcggggct taggctctgg cccttggagc ggatgaggaa 60

gtccgggcac tgctgctgct gatcggcggc tgcctccatc ttggcgccag cgagcgcagc 120

agcgtcg 127

<210> 35193
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-007-Q1-K1-A11

<400> 35193

ccaccccacc cacacacccc ccccccccacc ccccccccca ccacccccca ccccacccca 60

ccccccccca ccacccacaa cccacccccа cccacccccа ccccacaccc atcccccccc 120

accaccccac ctccccaccc cccccacccc ccccccccccc cccaccaccc acccccccac 180

acccccccacc ccccccccacc cacaaccccc cccccacccc ccccacccccc ccccccccccc 240

ccccccccac caaccccccc ccaccaacca cacccacccc ccccacaccc cccacccccc 300

caccccccccc ccccc 315

<210> 35194
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B3

<400> 35194

cccaggcgtt cgcaaactaa tgcttgctgt tttgcttcca tcgcatgcaa tgcttgagag 60

gggcggtgac acaatgaaag aaaatgcctc cattcatgct tatgcgcatg aattactgga 120

agctcatgaa tgctggttga aatatcacgc tacacgagag gatgctgagc taactaaggc 180

ctgcgatttg cattaccatg ttttcagaag aatcgcctca cagcttacaa gtcttaccac 240

cctcgatctg cactctgact agcctgagct actcaaatgt caaaagttgg aacttgctgt 300

gccaggaact tatgctgcat attcaccact cgtgacgaat gagtattatg gtccccaatt 360

gattgttata acgttca 377

<210> 35195
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B4

<400> 35195

atgaggactc agcatataag aatactgttt agagtttcac tggaattata tttaaaactg 60

gttcgaagaa tggtatgctt gaagtgtata actctctgac tgaagaagga aagaagcagt 120

ttattgaggc ctatagtgca gcatattacc catgcatgga catattgtat gagtgctatg 180

aagacgtctc ttttggaagt gagattagaa gtgtggtgtt ggctgtgagg agatttcatg 240

agaaggaagg gctccctgct tttccctatg ggaaaaattg atcaaaccac gtatgttgaa 300

ggggggtgaa agggtccctt caaccaggcc acaatgtgat cttggcccaa tggatccctt 360

t 361

<210> 35196
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B5

<400> 35196

cggacgcgtg gtcggactcg tggtttgact tttgggttat ttatttttt tttgggaccg 60

tgcgagtcga ggcctcgagg tttataatca gtttgaagtg ttgaactccg gttactgtca 120

ccctacaatg gtagctctaa tcaagaaccc taatcatata tcagatcaca ttacatgaca 180

gtcgacactt gacacgggca cacacacaca ccagcgctgt ccatggatca tacctgcaag 240

tcagctccgc ggcgcatccg gttgcgccta cc 272

<210> 35197
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G12

<400> 35197

ccgcctacac ctacatacat gtattctaat gccagagcac aaactacatt agcttgctat 60

ccttgaacat taccccagc catttaaaca cctccactac cccacccata attcacgtaa 120

actcctcaac cttctactcc ctataatgcc atccctgaat aatacatacc aaaatctctc 180

cactctaaca gaactacata tctatactga cctaccaatg ttcctcatac tctcccttaa 240

cacctacgac acaatcattt ccagactctt aatgaactat ctacatcatg catcacccct 300

tctctacatt ccacttgtta taaacatact cttactatac tcttcat 347

<210> 35198
<211> 314
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-G2

<400> 35198

ggtttctcct cgtggtcgcg gtcgtgtccc cgttttcccg tgcgccaacg ccaagtgaag 60

gcaggctacc agtantgccc tcgtcctcca atcgtcaatg agcaccgacg ccgcaccccc 120

cctacactct acccgcacag cgcccctcgc cctcacaccc caacccaacc attcgctcct 180

tgtcgccttc cgacgctgag tttgctggtg tcgatttgca ccggcggatg ctcgatctgg 240

tagctgcatg tgccgaccta ctcgtcgaat ccggttgttg tcatgacaca tgcatatggg 300

aacagaactg gaat 314

<210> 35199
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G3

<400> 35199

acccacgcgt ccggggatct ctggcttctc cccgtcccgt tcctgcttac cttccttgta 60

tagccgaata gcgaaacgac tgctctcgcg agctcgacgc tagatgtacc ttctgctgcg 120

cccactgccc gcttgtgtac tataatgtca cagcgcccct gagccgccac ctgacccaaa 180

ctatacgttc ccttcggccc ttagacgctg aagccgctca agtaaacttc acccaccgga 240

tactacttct aca 253

<210> 35200
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G4

<400> 35200

ggacgcgtgc gcccacgcgt ccggctatga gctttacttg ttggttggat tctctggagt 60

ctggcagcta gtccagttaa gtttcagaca cacatgggga gcattggcag aggcacggcc 120

aactgcgcca ccgtgccgca gccgccgtcg tcgacaggga agctcatcac gatcctgagc 180

atcgatggcg gcggcatccg cggccttatc ccggcgacca tcattgcgta cctcgaggcc 240

aagctccagg agctgg 256

<210> 35201
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-G5

<400> 35201

cggacgcgtg ggcgctcgcc aacgtgttga gtaaggaagc agctagctag gaggccagcc 60

gtccactgac cggccggtca tggcgaggat ccacctttac gtcgtcgccg cggcctgcgc 120

cgtcgccctc gcgctcgccg tcccggccct cgccggcgac ccggacatgc tccaggacgt 180

ctgcgtggct gactacgctt ccccggtcaa gctgaacggg ttcccgtgca aggcgaacat 240

ctcggcggac gacttcttct tcgacgggct gaggagcccg ggcaacacca acaacccggc 300

gggctccgcg gtgacggcgg ccaacgtgga caagttcccg ggggtgaaca cgctgggcgt 360

ctccatggcg cgcatcgact acgccccggg cggccagaac ccgncgtaca cgcacccgcg 420

cgccaccgag atcat 435

<210> 35202
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G6

<400> 35202

agatgaggaa ggtataattt agaatgttaa catcttgata catctggtgg gtatagagca 60

cttaaagatg ggatgaagct ttatatttca gacaacaaag tgatcttgac agaaggtttt 120

ggttttgatg gcgttgtccc tgtgaaatac tttgaaagaa tcgaaacatg gccaggacga 180

gctccaatac cgttccaaag ataacaggcc atgtttcagc attgctagtt cgtacgtact 240

gaaaaatgat ttgtcatgat gtatcccgga gaaccatttt ttttggtaat tcacatacac 300

tattttgggg ggttggcttt ttttttttg ggggggggg gagtcactat gattgtgttg 360

ggacctctca gatattcgtt tgatgatttt tgc 393

<210> 35203
<211> 411

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G7

<400> 35203

cggacacgtc cgccttaatt tctatatgac cctctgctcc ccatcaactc tggacctgtc 60

ccaacgatcc ccaattcctc cttcagattt cacattcaat gcaactcaag acagcaaaga 120

aagcagacat atacgaatgg ggctcgtgtt tatgaagctc ttcagccatc tcttcgtcga 180

taaggatatg catatcctta tggtcagcat cgataccact ggtaaaacca ccatcctcta 240

caagctcaag cttgacgaga tcgtcatggt caccttaga ggaacacatt ggacaaggac 300

tcggacactg ttgcataccg atgatacaga tctaaagtaa gatggggatg tcgtgtgctt 360

gagacgacaa ggatggaaat cttttcaagt aatggctact ctttttatca t 411

<210> 35204
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G8

<400> 35204

gggagtcgtc tccctgtact gctgcctgcc cgctgcgctc accggtgacg gctcctgctc 60

gcgccgccgg agcccatccc accgcacgct gcaccgtcgt ccgcctctgc aatttgcgcc 120

gccggtcccc gtcaatgtcg attgccgtct gcctcgctat ccatgcggcc tgactccatc 180

ccgtcggttg ctgctcccat tcccccacac cgtgcgccct gctactccgc acgtttgaca 240

actccgaact ccatctgctc attcatcgtc tcgtccattc ctacaggtat gaacactctt 300

cgaaatgtgc ctactcggta ttagggatat cttgggtcta gcgaggaaga tgacgaaagg 360

ttcctctcgc caatacctac ggtttcggcc gcagatcgag ccagtggccc caacttgtgc 420

gcgagcgaac g 431

<210> 35205
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G9

<400> 35205

taactgccgc tgggcaccat ttcttgcact gtatacatct gacacattcc ttaccatgtt 60

ggggctgcta tccaagtaca gaatgaagag ccttccagtt gtagaagtgg gaggagataa 120

gattgagaac attatcacac aatcctctgt cgtacacatg cttgcagagt gtgttgggct 180

ctcctggttt gagaactggg gaactaagaa actctctgaa ctggggcttc ctgtcatgaa 240

accatcgaaa cttgtcaagg taagcgaaga tcagccagtt ctgaaagctt tccaactgat 300

gagggaaaag ggagttggtg gcttgccagt catggacaca agtggagcaa atgccattgg 360

taatattagc atcagagatg tccagtatct tttaactgct cccaagatat acaaagagca 420

c 421

<210> 35206
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H1

<400> 35206

gacccactcg tccgtgcttt cagagatggt cgctgaagcg ttcaggttta tcaaccaagc 60

ctgctagcac ggaacacgct tatgttggct tagaggaaag atcagcagcc ctcaaggcac 120

tttcattggc tgtcggtcct atgcgtggat catctgcact gagatcagga gcttatccac 180

aaagcattca gcataagtct acagtgtttg ctcctaagat gccagaacta agatctgcag 240

taacccccttc accggcacca gcagtgccag tcccagttgc tattcctttg cgtgtggcag 300

ctcaagtaca ggcttcggct catcaagggc attaagcttc tgcccatgct tcaccaccca 360

aatttgtaaa tgc 373

<210> 35207
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H10

<400> 35207

aagccttaca tcaatatgat cagaactgtg tattcagttt catttgagga atacaattgc 60

tgagtattct ttatacaagt gtctgataag aggtaaacag ccttggcata actgtacatg 120

taataaaatg aataaggttc tgccaactct cggtctcggt tatgccaatt aataaccata 180

attcgttgtt tcagaccacg gtacttttg atcagccggc tgctgctgtg agccgataac 240

aatgtagctc attgtgcacc tccatattgt actcttgata agtgtactac tcatcactgc 300

caagcaacga tgagatagag taattggtct gtttcccgca aaaatactta c 351

<210> 35208
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-H11

<400> 35208

cccaggcgtc cggttgagta taagaacatg tgcttcactg tttgggatgt tggtggccag 60

ggcaagatca tgcccctgtg gaggcactac tttcagaaca cacagggact tatttttgtt 120

gtagacagca acgacaggga acgtgttgtt gaggctagag atgagctcca caggatgctg 180

aatgaggatg agctgcgtga cgctgtgctg cttgtatttg caaacaaaca agatcttccc 240

aatgctatga atgctgctga aattactgac aagcttggtc tgcattccct gcgacagcgg 300

cactggtaca tccagagcac ttgtgctaca tctggtgaaa ggttgtatga ggggcttgac 360

tggctttcca gcaacatctn cagcaagtct tgaagctttt cggcagggct cctagcgaga 420

ggatgtctga acaacttatg gctgcttttt ttacatatta tac 463

<210> 35209
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H12

<400> 35209

gcgctgactc gtgcggtcat tttaactaat gactgcttat aattcaaatt ggatgagatc 60

aattaataag taatgccgga tatccaatca aggcctttgg gtcacaagta cagaaaagag 120

aattctgaag ctgataaagt tgagcaggtc 150

<210> 35210
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H3

<400> 35210

ggggcttggc ctccgctcga tgttcagcta ccttacagac cgtcctcggc taggttacgt 60

tacttgcagg atagtatcaa cgaaccagga gaaagaaatc gcgactaaag aacttggcag 120

ctgctctatg agtacaccac gtgctcatcg cttcgccaca acgtcgttca agcagctcgt 180

gacatcgac 189

<210> 35211
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H6

<400> 35211

gacccacgcg tccgagcact cgtccggatt gttgtcacct ttatcctagt ctacaccgtc 60

ttctgcacca gcgatgccaa aaggaatgcc agccactccc atgttcctat ccttgcccca 120

ctgacaattg acttcgcgat attcctggtt caccttgcca ccatccccat tactggcact 180

gacatcaacc caactaggat ccttggcgct gccatcatct acaacaggga tcacgcctgt 240

aacgaccatt ggatcttctg ggtcaagccc ttcattggca ctgctctggc tgccatctac 300

caccaggtga tcatcatagc catcccgttc aaaaacaagt ctt 343

<210> 35212
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H8

<400> 35212

cgcacacgag cgcacacaat tccagtttcc cgagacgagc gcgacggcgg acacagggca 60

tatcaaaagc acccagacca cacacatgga gccagccaag gagcacgagc gcatcaaggc 120

caccggcaag aacgccgaga tgtggcccta cgtaccctac acgctcacca cctac 175

<210> 35213
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G11

<400> 35213

tcccaggcgt tcgcccacgc gtccgcccac gttgcctatg ttttgtgttc gttccacgtg 60

tcgattgaca tgcctagatc tggaaccgct ctctggagcc ctggcggccg gcaacgccgt 120

ggtggtgaag ccgtcggagc tcgcgcctgc cacctcggcg ttcctcgcgg ccaacatacc 180

caagtacctg gactccaagg ccgtgaatgt ggtggatggc gggccggagg tgggggagaa 240

gctcatggag caccgatggg acaaggttct cttcactggt aatgaactac gtacgtaatg 300

catgagcgtg tatctgcgtt accacctggt gtctctctca ctctcaggca gcagccgcgt 360

tgggcgcctt atcatggccc aggccgacaa gcacctcacc ccggtggcgc tggagctcgg 420

ctccaaatgc ccctgcatcg tccactggct tgaca 455

<210> 35214
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H9

<400> 35214

tgtcgaacct ccactgagca caatgttccc ctgtattgct gatcggatga gcaaggagat 60

cggttcgctt gcaccaaaca gcatgaagat caaggtcgtc tcgccacctg agcggaagta 120

cagtgtctgg ataggagggt cgatcctagc ctcgctcagc actttccaac agatgtggat 180

atcaaaggag gagtacgatg agtctggccc ggcaattgtt cacaggaagt gcttctaggt 240

ttctgccaag ttcgtcaagt gcttttaggg tttgccatgt tcatcatcgc tacctagtct 300

taagttatgc ccccttcatt tgctgagata tgtgtggcaa atttgcattc gtttggtatt 360

tc 362

<210> 35215

<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-007-Q1-K1-A10

<400> 35215

cctaaacttc ttaaaccaat actttcacca cctcctaaaa ttcattatac gccggatctc 60

tttaacatat tttccatcca tttaacaaca cataaaaaat catcttcatc ttcaaacgac 120

cataatttct ttaatagctt ccactcttca caaccaatac ctatttcata taaaaaacat 180

ttctccaaac catcataaat caatacccat tctacatctt taatttaata cttatttaaa 240

gactcaccaa ctcttccatt atcctcaact ccagctcttt cccaactaaa ctctaataat 300

gatatcatta atttatttta taatctatgt ttttcactcc aatattgtat tacctttctc 360

ttcccatcaa caacatcttt cgctcatctc tcatcagcaa actcttctaa ttactctctc 420

aaact 425

<210> 35216
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-E1

<400> 35216

ccgcccacgc gtccgcatac ccttttttctc ccaaaaacta ctcacatgtc gcctgcccaa 60

cgtatcaccc tttctcgacg gccggcctct tctcttcacg gactcgcagg tcatcgagat 120

gtcatctgcc gaagccaatg ccgcaacgaa ggccgtccca cagtctgtgc tgcgcaagcg 180

caagcccgag gagcagtggg caacggacaa gaaagagaac gccctcgcat acaagaagga 240

agcgcttgac aaccgcaaga tcatatttgc tcgctccaag caatactccc a 291

<210> 35217
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-E10

<400> 35217

tcgcaaagga ctttcttggt gtttgttatg gactgttttc taggtcctcc acctcatact 60

tggggaaggc tagactgcaa gataatgcac tgaggctgtt gcaggatgct gccacaacag 120

cgaagtataa tcctgaaata atgtatagcc tatcttggga aaatgcgatg cagcgcaaac 180

tcaatgcagc tgttgaaagt gcaacagaat gtcttgagat ggtgatgggt ggttctgtta 240

gtgcctggaa gttactaact gtatgattat ctgcacagta taaatttcaa gaagctcatg 300

cagcagcaga attttgctat gcactacgtt gataaaaatg atgctatgca tatcttgaga 360

ctgaagc 367

<210> 35218
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-E11

<400> 35218

catattacct caacccaacg aatantttat agctctcaca tttcatcata atggatgcat 60

ttcttgaaaa cttactcatc actcctcacg ctctattcat ccacaatttc atattatatt 120

actttcttat tctatcttcc ctcatactat tcaacaaatc ttcattacaa ctatctaact 180

cctactccaa catcctattg cagatcaaaa tcgaccatat caaaatatca cttccctaga 240

cattcccatg cattaaactt tacattaaac ctcctaaatc atcttcatta aataatcatc 300

aaaattcatc acacacataa taataatccc cattatttca taaaccgaca cttatctaat 360

accttacttc cattgaactt tgaatttatc gtcattaaat aatcaaagca ttatttattc 420

atactcaata atat 434

<210> 35219
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-E3

<400> 35219

ccactcatcc taaaaaacaa acaaaaaaac aaaaaaaata aaaaatttaa aaaaaaaaac 60

aaacaaaaca gcaaaaagca aaattcaaaa aaaccaaacc cacaccaaaa aacaacaaaa 120

caaaaaaaca caaaaactca ccaaaaaccc ataaaaatac ccaaaaaaaa aaacccaaca 180

caacacaaaa aacacctaca aaccccacat 210

<210> 35220
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-E4

<400> 35220

ccggctcgac ccccgcgtcc gaggaacctt ggcccgacac catgctctct aaggttgtcc 60

accccaccac cacgccgggc ttgtcgccgc gctcccgcgt ctcgccgcac aggcctccca 120

tctcctccct ggcggacccc tcgtacttcc ccggccatcg catcgtcagt ttcaaaagca 180

ggacgctgcc acttcgctct ctccacatcg ccgctgccgc tgccgccggg gcagacgaag 240

aagaggcgca actaggtgga agtgtgaacg cggtcgacca ggaagaagcg gagaataagg 300

tggtggtgcc cgagagacaa gacccgatgc tggtactcaa gttcatctgg atggagaaga 360

acatccgcat agcactcgac cagctggttc ctggctatgg cagcatcc 408

<210> 35221
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-E5

<400> 35221

cggacgcgtc cgcccacgct ttcgcttctc gcgccgccgc cgccgccgcc gccatgtgta 60

agcgttggag gggagggacg gcggggaaca agttccgcat gtcgctgggt ctccccgtcg 120

cagcgaccgt gaactgcgcg gacaatacag gcgccaagaa cctctacatc atctccgtca 180

agggcatcaa gggtaggctc aaccgcctgc cgtccgcctg cgtcggcgac atggtcatgg 240

ccaccgtcaa gaagggtaag cccgacctca ggaagaaggt catgcccgcc gtcatcgtcc 300

gccagcgcaa gctgtggcgc cgcaaggacg gagtctacat gtacttcgaa gataatgctg 360

gagtcattgt gaaccccaag ggcgagatga aaggatctgc tatcactgga cctatt 416

<210> 35222
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-E6

<400> 35222

agcaaaagca acaaggcttt agcacattca agaaccacac ctcctcccgg agcctagaat 60

catttacaca tgctgcggcc gcaagtgcag atgcggctcc agctgctcct gcggcaactg 120

atgcaacggc tgcggtatgt accctgacat ggagaccgtc gccaccagca gcgtcaag 178

<210> 35223
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-E7

<400> 35223

agagtaagaa catgcccagt tagcacattt gtggcacttg gaaagagtat gggatactgt 60

accgttcaac agagcagaga ccaatttgtg gcccattgaa gctagaaaac agacatgtct 120

gggattgcac aaagaagata tcagctggaa accagaagtg taataatcat aaggattacc 180

tatctttcgt aagaggtgca gtgccacgca gccacgcagc aagcactcca aatggtttag 240

aaaaggaggc ggctaattca aataaatccg ctgacaacgg aagtcccgta aggccaatct 300

tgccagagtt attgctttct tgtcatgaca tcaatagcca agagaggtcc ccatcatcta 360

gtgctcatca atcatacttc cctgctgcaa atgatcgacc actggagact atagagtttg 420

gatc 424

<210> 35224
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-E8

<400> 35224

gctggtcagg acctcacttt ctcgcttatg aaaattctca ctgagagggg ttattcgttc 60

acatcctccg ccgagcgaga aattgtaagg gacatcaagg agaagcttgc gtatatagct 120

cttgactacg agcaagagtt ggagactgcc aagaacagct cctcagttga aaagagctat 180

gagctacctg atggccaagt aatcaccatc ggtgcagaga gattcaggtg ccccgaggtc 240

ctcttccaac catccatgat tggtatggaa gctgcttgga tccatgagac aacatacaat 300

tcaatcatga aatgtgatgt gga 323

<210> 35225
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-E9

<400> 35225

gaccacgcgt cctcacagac atacagtgac cctacctatc ggctgagttc cacgaagagc 60

acggcaacca tagggaaggg ttgattcata aacttcaccg gcgacccata ctactacttc 120

tgactgtagt tcaacgagtg cattatcctc ttccaccagc cctccaactg cagcctactc 180

cgctaatact atctcgagat cctccaccac tccaatgaat tccatcccac gaacatgatc 240

tacaaatatg atcaacttca gatcataact tcttctctta atgccaacga ataaacttat 300

gctacccctt ctgctgcatc acaccattag tcttcctgtc ta 342

<210> 35226
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-F1

<400> 35226

ccactcgtcc ggggctacaa gagattcacc acagttcttg cacactatat actaagagta 60

gactgtatga tcnatggtaa agacataagc ttcggtcaca ctccttacga cacgtgttgc 120

atggcacatc actcagtgct gagcactgag ctcaagctca gtggaagtgg agggcttctt 180

actgggcgcg ttacgacagc tgtcgccgac gtactcgtcg tccgcgtcct tgccgaagag 240

cttcacggtg tcctacaggc tcctgcccat ggtcttcgac aagaagaagt acatgaacac 300

cc 302

<210> 35227
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-F12

<400> 35227

gaccgacggg ttcgattggg ttattcgtgg acaagatcac cgtttatgct ggctgcgtca 60

atggcactaa gaaagcatgc atgaaacata tagcctactg aacagtctta ttcagaggaa 120

aaccgtccag gttgtgcgtg tgttgctgtg ccaagagtac tcttaccaga agatgcaacg 180

gaaccaacaa ctggcatcaa gttccccact gtactcgaag acaattccaa tctgactaca 240

gaggtccttg ttggaatggg ttttagaagc atgcgaataa tgagggtcaa aaatctgaat 300

ctttatgcct ttggattata tatacaacct gattctgtct gcaagaagct gggtccaaag 360

tacgcttata ttccagatgc tgagttaaag gatcacccag atttctatga agatcttctg 420

agggaaaata ttgacatgac 440

<210> 35228
<211> 211
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-F2

<400> 35228

cgctcgagcc acgcgtccgg gcctacttgc ttttcttccc agatgtctac ttttacacac 60

tcatatgcaa cgtgacgana tttgcgcaac atcacaagca accaccacct gcattacaac 120

acctgtgaca acccaccgaa ccaactccct cactacttca ctctcgtcga cttcaacggc 180

atgcttaaca ctaacgcccc ctctacaagg a 211

<210> 35229
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-F3

<400> 35229

tggacgcttg gtctgacgcg tggggattga tattttactc tttatatacg cctaccagta 60

tttgggtact tcacatgtta tcaaagtcat gcttcaaatg catcttgctg cgcaaagagg 120

aaacttactt acaatggtac ttaaagtcac agcacctaca ggtttcatat ttcacacttc 180

ttctgatgtt aaattcattt cctagttata tgtctattgt gaaatatgtt atggaacaat 240

atttacacaa atggttgaaa gggaacggac tcattcactc tacctgtgac ttgcaccagc 300

gttgacgaga gctgttgtct atggtggcct tcgctattaa ctgtatgagc ccttcaagca 360

tgcctgcagt tattccattt ggttcaacat actttgcttt taaatttgca 410

<210> 35230
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-F6

<400> 35230

ccacgcgtcg cgcacctccg atctgttatc ctttccttcg acatcgctac tacagattag 60

ttgatatctg acctgtggcc ggaggcggta ctactgaaga tcatgattgc tttcttttct 120

tttgttgtgt gattctcttg gtgggtcact ggtctcatgc atgcgatctc tgtataaatt 180

caccgactct ttaggaactg attactattg gctattcgct attatgagta ta 232

<210> 35231
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-D9

<400> 35231

tcccacgcgt ccgcttacct tatcctccct ctacgtttct cattcagctt cttgaaattc 60

tgcggggttc ttattaacaa gttatcggat ctacatatcc tcatcacatg tttattaccg 120

ctgcttcatc aactgcctca cctctaccac ttactaccac tctcttcaca acaccttcag 180

cacctacttc tagatcctct aatccaatat catcctctat tcttataccc atatctccct 240

caacttcagc ttcatcacct tctccactga ggatgcaata cttaacgcca tctaatgcat 300

taactgcaaa taactttact tcctcaacat caccatcaac tatgcccaat cc 352

<210> 35232
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-F7

<400> 35232

gattcccgct cgactccacg cgtccgccca ctcatcccac cacacttacc tataaactaa 60

tcataccata ctcacagaga ccagtgacat ttcaaatcca accaacaact aaaactacct 120

acatcacaac tcatgaaaac cattctacta tcaaccaaca acacatcaca acatactcta 180

accacatcc 189

<210> 35233
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G1

<400> 35233

cccactcatc ctaacataca tactattact ctcacacctt taccactaca cactcaaatc 60

caaccatcag atcattgtta aaatcacaat cttctaccac catcattaca acaccttcta 120

caacctacct tactaactcc ctcactcct 149

<210> 35234
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-G10

<400> 35234

aaaagccata acagattctt ttgtttccac tgacattatc atttctgcaa gcatacatat 60

aaaaagtata ctgcctctta cactatttat aatctttcna cactcaatat tgaactttcc 120

cccaaatgta tacccatttc tcatgattgt caaatatttg ttgtctttat aatgattcaa 180

acatgattta ttattgctca taaactattt cttacattgc attatgaaac aaattgttat 240

cgtattccac atctttttca tatattattg taatatcctt attcctaaca aaaaaaaaaa 300

tctcatttaa agcatattca ttccaaaaaa aacaaattcc tattatta 348

<210> 35235
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C10

<400> 35235

cccactcgta ctacacacgc ctcctcacaa actatcactg tgctcaataa caaagaaaat 60

ataacctata acacgaacgt tttccttcta aatcaaactg ctccttctac tcctccctgc 120

actcctccta ctcctacacc aatctcaacc aatactataa cgcaccttct atacttcttc 180

aatccactac aaatccctac tcccctcccc tctccattct tccttccctc cacattttct 240

tctccgcctc tgttgatgac ccacatatca catccactgt ctaatacctt ttcactgact 300

cagacatctc ctaccaacac tacaacccct acctccacca ccaccacc 348

<210> 35236
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-C11

<400> 35236

aagatgaaga gtcagggcgt atgttctgca agtcaagacg atgtaagcac gcnagcttta 60

tataggaagt caatcgggat gtggctacgc acaccttgta cttactgcta acaattcgta 120

aaaaaatggt tttgttcacg atcttgatga tgagtctggt gggatgcgag gatcatgctg 180

cagaggtact aagcgcagcc gcaccgctga agtgcacaat ttgtccgaaa ggaggagaag 240

ggacaggatc aatgagaaaa tgcgcgccct gcaagagctc atccccaact gcaacaagat 300

tgacaaagcc tccatgctgg atgaagcgat tgagtacctc aaaaccctac agcttcaagt 360

tcacatgatg gccatgggaa gtggactgtg catttc 396

<210> 35237
<211> 246

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C2

<400> 35237

cccactcgtc ctcggaccta ttaaaatacg cccactcgtt gtcacttctc ctccctcctc 60

ccatccatag catcttgtcc ctcttcaaca ttcatctctt caccttttcc tcccccacat 120

tgatccttga ccctcgtact cctttcttga ttcctactcc gattaatctc ttaccaagat 180

taaccttccc cttctccacg ctcgcactct cactctcaca tacattcttc ttaccacatc 240

tttaaa 246

<210> 35238
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C4

<400> 35238

cggcctatcc ccatcaacaa cgcaaatttc taaactgctc gctctggtcc atccagaggg 60

acagtgtcca tcttccacac ctctcgtcgt cgtctccgtg caccactcgg cccccactgt 120

cggccgcgcc tcccagccac ctcgtgccgc tctgccaccc cgcccgtcct ccactgcccc 180

tatggctgcc atgggcgagc gctgcccgag tagccgaccg ccctttcccc gccgtcttca 240

gctgccgcgc gctgccccgc ctccccggca ggcctccact gcccacttct acggcggcta 300

cagcggaagg caaggagaag gacagcgggc agcggtagct ggatctagca agcacagggc 360

gtcttctcca tccgccacct ctcggcgcat catcagctga gagtttcagg catttgctca 420

ggtggtttca tttcataata tagctactac 450

<210> 35239
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C5

<400> 35239

cggacgcgtg ggcggacgct ttggcttcaa tcggctggac ggcactatcc gtcctgggct 60

agtcaagctg ggaagcctcc ttgagctacg gctgagcaac aactgcctta caggcattgt 120

tcctgcaagt aatgattccg acgtggaatc cgccagcagc tctgatcaaa ttggattgtg 180

tcagctatct caactaacca atattgatct ctcgtataac ttcttggttg gagatgtccc 240

cgcatgctta cagcaaatcc aaagatcaag cttggtaggg aattgcttcc agaacaacac 300

atcaaaccgc ccactacaac aatgtgaaac taatcaggac agaggcaaag acaatgatgc 360

tgatgagaat gtgcagaaag gcctgccaga gccactttgg cttctcattc tggaagtcat 420

<210> 35240
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C6

<400> 35240

gggaggtttc acaagatgat ttcatttttg ttgacagatc catagagttc gcatatggag 60

aactttctga tgctacaaac aactttagta tggaccataa gattgggcaa gggggttttg 120

gttctgttta ttatgctgag cttagaggcg agaaagctgc cataaagaaa atggatacaa 180

aggcatctca agaattcctc aatgaattga agattttgac acgcgtccat cacacaaatc 240

tggtgcgctt aattggttat tgtgttgaga gttgcttatt tcttgtttat gaatttattg 300

agaacggaaa cctaatccag catctgcatg ggacgggtta tgaacctctc tcatggacca 360

gtatagtgca aattgccctt gattcaacaa ggggtctaga gtttatacat gagcacac 418

<210> 35241
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C7

<400> 35241

ccgaccccta ccacgagctt tatccttttg tcatatcgac ccctacaaat agcctccagg 60

tcatctacca gatgtcttgt taatctttct ttatggccaa tcgatgtctc tatcgcaaac 120

ctcaacaccc aagcacgcct tacacagctt catgagtacc ttcttactca caactacatc 180

actggctacc aagcaatcaa ggatgacttg gatgactaca catacgtttc atctgctacc 240

tcatccaagc atatcaacgt atcaaggtgg cagaatcaca t 281

<210> 35242
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-C8

<400> 35242

cggacgcgtg ggccacgatt tcgctgtata gattgtgatc tgcgaccgcg gcattaggcn 60

ctctttgcag aacggtcagg ttgtcaagaa cgccggtgcc gcgggcatga tactcgccaa 120

cacaccggca aacggcgagg agcttgtcgc cgacagccac ctcctgccag cagtggccgt 180

tgggcagtct gaaggcattg ccgccaagaa gtacagcaaa accgccccga aaccaacggc 240

cacgctcagc ttcgacggga cgaagctcgg gatccgccca tcgccagtcg tagccgcgtt 300

ctcgtcccgg tgaccaaact tcctgaccct ggagatcctc aagccggatg tcatcgcgcc 360

cggcgtgaac atcttggcgg catggagcgg cg 392

<210> 35243
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C9

<400> 35243

tgcaagccct ctttgttcag tattactgga gtgcataacc gcaaaactat catatgtttc 60

tgtaaggctt cctgtgtaaa tttgacttag gtctgtcaag tctattctat tgctggtagc 120

tcacattttt gtattccatg gccagattga tctccatgaa gctcgtcaaa gcattgaaca 180

gcatgaatcc ccagagaata tcttccgcgc tgtccttgaa actgctgctc aggcccatgg 240

tgaagataac agcattcagg gcatggtcga agaacttgcc actgatcaag agcttgccga 300

tgactacatg aaacttttga tggaacaagt tctgcagagg atacagtcag agtcgcagtc 360

ggggaccaag cc 372

<210> 35244

<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-D10

<400> 35244

acctacttac ataagaactg aattatagat ttgaatattc atgtttctgg gatgatctta 60

taataacata ctcggtttac ttaattaata accaaattct ttgttatttc acattaaata 120

atgattaaca ctcctactca tacacttatt ttctgtgaac atgaaagcat tttctaaaca 180

gtccttttct gtatccactg aacttgcaat attttgttat gctcaatgtt ttttcaatat 240

gatgcccttt ttcatagtta tgtttaaatt cacaaacaca tgaatttttt tttcttaaac 300

gcgcacgata gctgcacatc attaaattaa gacaagaaat cagtccaaaa tgtaccaaat 360

tacaatgcca atatctgcaa aacacataac ac 392

<210> 35245
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-D11

<400> 35245

actccccgcc ctcaaaaatc tctcctacac cttactatcc tccctctctt ccaactctcc 60

acccatccac aagctctcta tttcgtcctg caccttctca cccactgcat tcatctcctt 120

gctccagtca tccccccctcc tctaaaacct ctccctcaat ctcctcctca tcatatcaca 180

cacttcccta tcctccagtt ccatttctca acatatcaaa tttccaccta ctatgtccct 240

actattctct tacctcaaag atctatataa cactc 275

<210> 35246
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-D2

<400> 35246

gcggggcccg ctgctcccca aattcccccct aaacctttct agctggaggg ccgatccgca 60

gctcccgggc gcctgatccg agcagtctcc tcggcccagc cggggatcca agcgggatgg 120

ggtacttgag ctccgtgatc ggccacccca ccgatggatc ctacgtcagc ggcggcggcc 180

tcagccagaa tggtagattt agctatggct atgcaagctc ccctggtaaa agggcatcca 240

tggaagactt ctatgagaca aatattgatt gtgttgatgg tcacatagtt ggtctttttg 300

gagtttttga tggtcatggt ggtgctaagg tagcagagta tgttaaagaa aacctgttca 360

acaatc 366

<210> 35247
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-D3

<400> 35247

aggcatctca ctctccgctg gtcgctttct cgttttactt cacccttcac tcagtctgag 60

tctcgtatta tctctaggct ctagctagcc gcgccactcc ttcatgtagc catcagcctt 120

ctcatcgcca ccaatggcca ctgccgaagt ccagaccccg accgtcgtgg cagccgatga 180

agcgcccgtg gtggagaccc cgccgccggc cgacgtgccc gaggagtctg cccccgccga 240

ggccgaggcc gaggccgaag ctgctgctcc tgctgatcc 279

<210> 35248
<211> 308
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-D4

<400> 35248

cgcacgcgtg cgtcttcttc cgccgctgcc gctttcgtct tcgtccgtag agcagcagat 60

catgtagnct ttaggaagaa aaaccgatcg atggcgtcca actacgtgga cacgacgggc 120

gaggagggac ggttccacgg ccctcacagc cacagcacca gcacgacccc gacgggcggc 180

gcggcagcgg ctgcggcatc gccgcgcaac ttccggcgca gcttctcctt cgcgtcctcc 240

gcgggccaca gccactgcgg cagcngcagg gccaagtgcg tgtgcgcgcc cgcgacccac 300

gccgggtc 308

<210> 35249
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-D5

<400> 35249

cggacgcgtg ggcggacgct tgggcttacg cgtggagtcg acacgtacgg gaccggggcg 60

atcttcgaca aggagatcct caagattgtc aaggagaact tctatttcag gcctggcatg 120

atcatcatca accttgacct caagaaaggc ggcaacgggc gctacctcaa gacggcggcc 180

tacggccact ttggaaggga cgaccctgac ttcacctggg aggtggtgaa gccactcaag 240

tcggagaaac cttctgccta aagcggcctt ttttttcagt aagaagctnt tggtggtctg 300

ctgtgcttaa tcatgctttt atatggcttc tacatgttgt ggatctttct tgatctgcac 360

cgcgcttatc gtttgtgttg tactgcccta ataagtggtg cttatgagga ctgcttctgg 420

ttttgctgc 429

<210> 35250
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-D6

<400> 35250

cggacgcgtg ggcggacgct tggggttctt gggcgaatca tagctgagag ggggaagaag 60

gagcatccaa gttgcaaagt ttatggccag accgcaagca aaaatcatca caacgagtta 120

acagatcttg gcatcatccc ctcattgaaa ggcaccacta ttcatcagaa ggttccacat 180

gttattttct gcgctccccc gtctggttca gatgattact ctagggatgt cagattggca 240

gcatcaaatt ggactggtga aggatctttc ctgtttacat caagtacagc tctgtatgat 300

tgcagtgaca acagcatgtg caacgaggat tgtctgtcag tgccaattgg caggagccct 360

cgtactgata ttcttctaaa agtggaaaat gttgttc 397

<210> 35251

<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-D7

<400> 35251

cccacgcgtc cgggcggctt tcaaggtggt tgatggtgaa tttgccagag gcatcaagta 60

ggatatagat tcttagtgta atactagcca aggaagattt ggcagacgat gttgatctag 120

aagctatagc taacttgaca gaagggtact cgggtagtga tctcaagaat ctttgtgtta 180

ctgctgctca tcgtcctatt agggagattc ttgaaaagga gaagaaggag agagcttcag 240

cagaaacaga aaataggcca ttgcctctgt cgcacactag caatgatgtc cgtgcattaa 300

gaataagtga tttcatacat gcgcatgaac aggtgtgtgc aagtgtttcc tcagattcca 360

gtaacatgaa cgagcttgtg caatggaatg atctc 395

<210> 35252
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C1

<400> 35252

gcacatgcaa atagaattta gatcttcctg cttcactttc atgtgtattt atctttcaaa 60

tgctatatgg atccgttcca catgcaatta gccttgcatc caattctcat tataaaaaac 120

ccaattatgt ccactgctaa tacaactcat attattcaca tgatttctac taccaatcat 180

aataaaatat tttaaatcat aacttcattc aatcaatcat aatctgtttc tatcaaacaa 240

aacatacaca ct 252

<210> 35253
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A2

<400> 35253

cggctagacc cacgcgtcca ccgacacttg caaacactcg tccgccttca cgtttttgaa 60

ctcataagtg gaaccctgat catgtggtcc atcttaccgt tcttctctta tgccatcgta 120

ccatggaacc gccctcttga caacttgact atccacatgc cttaacgagc caacagcaac 180

ataaacggat ac 192

<210> 35254
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A3

<400> 35254

ggcattaccg cacgcgatcc gcggacgcgt gcggacagcc aagacacttg tggtttctgg 60

caccatgtac tatctcacga ttgaagtgaa cgatggcgaa gtcaagaagc tctacgaagc 120

taaagtctgg gagaagccat gggagaacct caaggggctg caggaattca agcctgtcga 180

agagggtgct agcgcctaaa gatgtctcct tctccatgtg cgagcctgaa gctcatagca 240

aagttgcaga ataaggagcc atgctccctt gtgtaatttc ataagactac aaccctatta 300

gggcttcgtt ggttgtgtct gtatcgaatg gaattgaagg tgattaatta tccttctatt 360

ctaataaagg gcgtttaatc tactacaata ctcttcaatc cacacctaac cgaacaagcc 420

cttaatatga tatcttaca 439

<210> 35255
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A4

<400> 35255

gcgtccgtcg gcttctagca atgctgaaag actttatgtt ctttctcaaa gaaaaagaag 60

aagagaaata caggcaactt gagaataaaa agatacagac tctacttgta aagaggcatg 120

agaattcaat aatgttaagg cccaacacaa gcttcagccg tccatcaagc agaggcttca 180

atacgagtcc tggctccaca tccatctgga gcagccaagt ttctgcaaaa gttcagctgc 240

ctgactcaga gaactcccca gctgaaaaag atatgcgtgc aaaaataatt aggaacagag 300

gtacgcaggg cattttggga ataacagaa gctgttcaat ctctcatgaa gataaagcag 360

aagtctccac agtgaatcaa ggcatttcac caatttaatt ttttctcact ttaaatttct 420

ac 422

<210> 35256
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A5

<400> 35256

acccacgcgt ccgcgtagtc tttgggctaa tgtatgaagt tctgctcgag actgcaccca 60

gagcacattg gtacatttga atcagttgct aaccaataac ttcaccgaac tcaaacttct 120

cgtacacatt tgcgttctaa agacgatcct ccaataatcc tctcactaaa tcatcaatgc 180

ctttaagcac aaaactctct tgtcctctat cactgtgctg atctacggtc ttcaaacaaa 240

gaacattctc actcaacata caatgca 267

<210> 35257
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A6

<400> 35257

agcgcgactg ccgtactttt taatttttt ttttacttt ttttttaggc ccttcgctca 60

ttttaaaagg tttttagact ttaaatttat ttaattcata ttttttttaaa aaaataaagt 120

ttttttaaac agaaacaaga ttctttaaaa aaaaccacca taacaacaaa tttccaaaaa 180

ccaccaaa 188

<210> 35258
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-A7

<400> 35258

gttactacgg tgctttgttg ttttgctctt ggagtgcgga tggcgaatat tggttatcat 60

gtggtgaaga tgatcttgtg caagtatgga gcatggatga tagaaagata gttgcatggg 120

gtgaagggca taattcatgg gttagtgcag tttcttttga tccgtattgg tccccaccaa 180

attctgatga aacggaagaa aatgtcatgt atcgctttgg gtcaattgga caggataccc 240

aactgcttct ctgggatctg gcattggaag agattgctgt ccctctacgc catccgtctg 300

gtggctcacc gacattcagt agtggaagcc catctgcaca gtgngataat gcgtgccctt 360

cagccggtgt tctac 375

<210> 35259
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A8

<400> 35259

cggctatccc catcaacaac tcaaatttct aaaccgctcg ctctggtcca gccatatgca 60

cagtcgccat cgcccccacc tctcgtcgtc gtctccgtgc accactcggc ccccactgtc 120

ggccgcgcct cccagccacc tcgtgccgct ctgccacccc gcccgtcctc cactgccccc 180

atggctgcca tgggcgagcg ctgcccgagt agccgaccgc cctttccccg ccgtcttcag 240

ctgccgcgcg ctgccccgcc tacccgccag gcctccactg cccacttctc cggcggctac 300

agcggaaggc aaggagaagg acagcgggca gcggtagctg gatctagcaa gcacagggcg 360

tcttctccat ccgccacctc tcggcgcatc atcagctgac agtttcaggc atttgctcaa 420

gtgttttcat ttcataatat 440

<210> 35260
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A9

<400> 35260

cccacgcgtc cgctgagcta caccatcatt tttatggagc agcagaacac caacagcaag 60

gagggggtgg aggtgctgca gcaggccccg ttccacgagg atgccaagct tggcaagggc 120

cacttcactt ccaaagttta tcatctgcaa aggtttggtt tttatcactc gatgcgatgc 180

acagatacac agtaattttt ttttacctac tttgtacagt tttatatata taaatgaatc 240

taaagctgtt tcagaagcat aattactcga tcaggcttct atcgaataca tgaatgcttg 300

ttttttttat accaaaattg tataaggaac cttgacttaa acagtcagat tatgtgcagc 360

aagattccgt catggatgaa gggctttgca cc 392

<210> 35261
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B10

<400> 35261

acattacaaa actacatact ccatacacac gcactactaa tcatattaca aaccatttta 60

ctacctatca atattcatat ataccccga cacttaccat ccctacactt acatactaca 120

ctttgacctt cagaccaccc tacatacatc acatctagac aacatactct atgacccct 180

caatactttc tactaaatac acaattaaat tcccc 215

<210> 35262
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B11

<400> 35262

caatcatcac attttcctta taactcactc acactatcac atcgaaaagt taacttaaaa 60

aaataccacg acctacctca aattaagcta acacattctt cattcaacct tcaccaaaca 120

ttatataaac caaaaaactt cttaccatgt aaacactata tcacaccaac atccatattc 180

acacaatcac cttcatcatc tttctcactt caatttcatt cacaatactt ttaaccttat 240

aactacctat ataccccttа acaacaacac tcacatctct taaaatattt cacatataat 300

<210> 35263
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B12

<400> 35263

tcacaggcct tccctatttc aacaactcgc atagattatc cacaaaacat gctctactga 60

atgctagcct aaatatacta actatcatca ataatccaac acatgctgct atacactatc 120

atctttacaa gaaaccaacc catgtcacag agaagcatca tctcattttc aaccctctac 180

tatgctccta cgatatcatc ctacttacaa tctaactaaa tatcttccaa gtcaatatca 240

caactaccta cacccatctc tttcatccag actctgacta cagactggtt aaccactact 300

tcc 303

<210> 35264
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B3

<400> 35264

gagaactgct ggtaacccta acatagtcta ggattctcct gcaccatcag caggatcgcg 60

tggtggcaat gacagtctat cgggggggagg cagcagcgga agcattggta acaatggggg 120

ttcctctccg tcttctgctg gagtcattgt aggctcagtg gttggtacag tcgttggact 180

aggccttgtt gctgcattgg gattttattg ttacaagagg aaacagaagc ctttcggaag 240

ggtgcagagt ccacatgcca tggttatcca tccgcgacac tcaggttcag atgacatggg 300

taaaaatcac agttgcaggg ggaaatgcta acgatggtgc tcgcgcaagc gagacatata 360

gccaagcgag caatggtcca cgggacatcc atgttgttga aagtggaaat atggtcattt 420

caatccaagt tc 432

<210> 35265
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B4

<400> 35265

cggggagata gagagaggag agggagttat tgcttataga gaacctgaac ccaaaccgaa 60

tcagggaaca ctatcgttac ctcaccaagg caggcgtgca tgccagcagc catggcgatg 120

gcgtacaaga tggcgacgga ggggatgaac gtgaacgatg agtgccagcg ctggttcatg 180

gagatcgaag tggaagaagg tgcaccgatt cgtggtgtac aagatcgacg agctgtcgca 240

cgccgtgcta gtggac 256

<210> 35266
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B5

<400> 35266

cggacgcgtt cggataaatt tctgattttg tctcaaatga gcttggagag gagatttgcc 60

cagttcagtg tttttctagc ctctactctg atggaatatg gtggtgttcc acaatctgca 120

actccagagt ctcttctgaa agaagctatt catgtcatca gctgtggcta tgaggacaaa 180

actgactggt gaactgacat tgggtggatc tatggttctg ttacagaaga cattctcacc 240

ggattcaaga tgcatgctcg aggctggcga tcaatctact gcatgcctaa gcgaccagct 300

ttcaagggat ctgctcctat caacctttcg gatcgtttga atcaagtgct tcggtgggct 360

cttggttcca ttgaaattct tttcagcaag cattgtccca tatggtatgg c 411

<210> 35267
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B6

<400> 35267

cgcacgcgtc cgcccacgct tccggtttca cccggccagc ctccatcgct ggtaccagtc 60

ctagtcccaa gtcccagcct tccatcgacg gcgagggagg gagaggcgac ctccatccgg 120

gctggttaga ttcatcgctt ttcttgtcgc tgtccctcgg cctttccccc tactgtgctc 180

cgagtctggg agaagcgact cgcgcacgcg ctcggccaaa ccaattaagc acagagcggg 240

gctctcgggc gagaacgcgc tgaggcagtg ctgggtttgc agttcgtgcc gtagcgtttt 300

ttttgtgtgt gtgccgaagc gaagaggcga tggctgcgcc gaggaaggtg acggcgacgc 360

cgctgggcac cgtgttctcg ccggaggaga cgaagagggc cgtggcgagg gt 412

<210> 35268
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B7

<400> 35268

ccgactcttc cgcccacgct atcggatcca cccggccagc ctccatcctg gtaccagtcc 60

tatttccaag tcccagcctt ccatcgacgg cgagggaggg agaggcgacc tccatccggg 120

ctggttagat tcatcgcttt tcttgtcgct gtccctcggc ctttcccccc actgtgctcc 180

gagtctggga gaagcgactc gcgcacgcgc tcggccaaac caattaagca cagagcggtg 240

ctctcgggcg agaacgcgct gaggcagtgc tggatttgca gttcgtgccg tagcgttttt 300

tttgtgtgtg tgccgaagcg aaaaggcgat ggctg 335

<210> 35269
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A12

<400> 35269

ggcaaccatg aatgcgttca ttaaatcgca tctatggttt ttatgaggag ggcttactca 60

gattcagtgt aaagctgtgg aaaacattca ctgactgctt taactgcttg ccagtgtcag 120

cattgataga cgaaaagatc ctctgtatgc atggcggtct atctccagag ttgaacaagc 180

tcgaacaaat acttaatctg agtcgcccca cagacgtgcc tgatactgga ttgctctgtg 240

accttctttg gtctgatcct tctaatgaag caacaggatg ggccataaat gatcgaggtg 300

tttcatatac atttggtcct gatagtttct gaattccttg agaagcatga tttggacctc 360

atctgccgag cccatcaggt tgtcgaagat ggatatgacg ttttcgctag ccgtcaactc 420

gtaacaatgt tttcagcccc taactact 448

<210> 35270
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B8

<400> 35270

cgcacgcgtc cgcccacgct tccgcttaca taggtttagc tccatcaccg acaccagacc 60

tatttccaag gcccatcccc ccatccactg cgacggatca agacgcgacc tccaacccaa 120

ctggttagac tcatacctta tcttgacact ctccctcgaa ctctaccact actgagctcc 180

taaccttcta gaaaccacta ccgcacccgc tctgccaaac caatcaaaca caataccgag 240

ctactcaact agaac 255

<210> 35271
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B9

<400> 35271

tcccaggcgt gcgcaccttg atggttcaac tttcgttgtt gaggacattg gccgtcagct 60

ggtgaggtat ggacgaagaa ttcctacccc cgagcttttt gcaagaatag atgctgttga 120

tgcaagcact gtgaagcgtg ttgcaaaccg cttcatcttt gatcaggatg ttgctattgc 180

tgcgatgggg ccgatccaag gacttccaga ctacaactgg ttcagacgcc ggacctacat 240

gctccgttac tagattaatc agccggtgta cccatgttta ccgtctgcaa aagacaagat 300

aaaatttgcc tcttttagcg tcagtatatt aaggcctcag cactgcacat tacgtgctgc 360

gatggaggaa atttttgaga 380

<210> 35272
<211> 347
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-005-Q1-K1-G9

<400> 35272

gcgtacgccc gcgcgtacgc tccactcatc ttttcgtttt tagaacctct aaaatttccc 60

ccgctcggca gtctcagcag cacctgtagc catggacgcc agcggagccg gtagcaaggg 120

gaagaagggt gcggccgggc gcaaggcaag cggccccagg aagaagtcgg tgacgcggtc 180

cgtcaaggcc gggctgcagt tccccgtcgg ccggatcggg cgctacctga agaagggccg 240

gtacgcgcag cgcgtgggca ctggcgcccc cgtctacctt gccgncgtcc tggagtacct 300

agccggcgaa gttctggagt tggcagggaa cgcggcgaaa gacaaca 347

<210> 35273
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H1

<400> 35273

ggccgacccc gcgtacggtt gggttcttca tggtagatgg ttgagacttt ggctttggtc 60

cattgaatat tccaacttgg gcgcgcacaa actagtcagc tgatcaacat ggaatcatca 120

ccttggtttg ccctttggag tgcttgtgca gcaaaagaag tatttttgtc tgtgaatgtg 180

aaacaaaggc atgaaacacg atgggctaaa gctggtcatc tcttggcttt agcacaactg 240

tgtttgcctt agaaaaatgg ctttgttctg agtgtgagtg cattgtccag tagccctttg 300

gtctgtgaac gcattggtga taatgtgacc atctgcaaga ataatgcctg gaaaatta 358

<210> 35274
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H10

<400> 35274

ccggcccgac ccacgcgtcc gcccgacgcg tccgcccacg cgtcctcacc ttctgatcac 60

ggagtgatca acttcgtgaa tcctaatctg ggtgcaaatc tgagtttgac aatcctgcta 120

gataattata gtgttagtga aataagcata agttatgcga cattaggcat cataaatttt 180

tatgtatgtg cttaatttgg caaggaacaa aaatagtcgg gaagaggact ttgtgcagat 240

gggagagctt cagtatttca gcaatatttt tcgatggaca aaaaaaaaaa ttaaaaagta 300

taagatatgg attggtaaaa tatcttggaa taggatagaa ttgcccaatt tttggaaatt 360

aatgcttgta ctcattag 378

<210> 35275
<211> 313
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-005-Q1-K1-H11

<400> 35275

gcagttgctt cagagagcta ccgccaccat ctattgagct actgcctctg accaagtccg 60

gggctgcgct gcgcctgcta tgtcgtcgtc ctcgcccgta tcggcggtct catcagccac 120

tgcgccgcac gtcgtggacg actgcctcgg catcgtgcag cttcttagcg atggcaccgt 180

gacgcgctcc gcggactact ccgacatccc tctcctgggc gaggtgccgt ccaacctgcc 240

cgtccagtgg aaggacgtcg tctacgaccc cgcgcacgcg gctcgnnctc gcatgtacag 300

gcccaccgac acc 313

<210> 35276
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H12

<400> 35276

acccacgcgc gacactggca atcaaatcta tcgctcgtcg ctgttcacac gcacgctcag 60

ccgaactggt gcgtgcctct cccgcggtgc ctggcttcct ccaagctcgc ccccaaccac 120

aaccacgccc tgatccgcgc tccagccctc cccatcctcc tcttgctatg gtgcccagct 180

cgagctctct ccccttactg ccatggccga cgcccctccc tgctgcagct cgatgcccta 240

ccctgcagca agcagtgccc tacccttttct gcagcaagtg ggtgcccccg gaccc 295

<210> 35277
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H2

<400> 35277

gcgctgcagt gaaccttggg gcgcctgttg gtttcagaag ccgcgcatcg tcatgggcgc 60

catgcgcttc gacaacttca tcatccaggc cggcaccgac gcgtcgctcg tgcccaccga 120

catggccacc accaactcca ccgtcagatt cacctaccgc aacaggggca ccttcttcgg 180

gatccacgtc accgccgacc cgttccagct ctcctacagc cagctgacgc tcgcgtcagg 240

agacctccac aacttctacc agcctcgcag cagcagccgc accgtcagcg tcgccgtggt 300

cggcaacaag gtgccgctgt acagcggctg acccacgctg a 341

<210> 35278
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H3

<400> 35278

ccaggcgtcc gcccacgcgt tcgaagcaat caagctgcgg ccggagcatc ttggagacag 60

gaagaatggg tggtagtagg tgaaaccgga ggcggcagga tagggagagg gagcgagagt 120

agaggccacg cctgcttgac agcaaggccc gtgcgctcgg cggcggcggc ggcggatatg 180

ggcgactctg gcggctctgt tgtgtcggtg gacgtcgagc gcatctcctt cggcggcaag 240

gaacatcata ttcaaaccaa ccatggatct gtatctgttg ccatatatgg tgaacatgat 300

aagcctgctc ttattaccta cccagatatt gctttgaacc atatgtcttg ctttcaaggg 360

ctactcttct gtcctgaagc agcttcattg ctgcttcata atttttgcat ttaccatatc 420

agtcccccat gacatgagtt 440

<210> 35279
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H4

<400> 35279

ctggcgatgg cgtagacgat cgtcggcaac tccacctcga tccaggagat gttccggcac 60

gtcagcgagc aggtcacgga catgttccgg cgcaaggcct tcctgcactg gtacaccgat 120

tagggcatgg acgagatgga gttcaccgag gccgatagca acatgaacga cctggtggcc 180

gagtaatagc aataccagga cgcgactgcg gaagatgagg aagagtacga ggag 234

<210> 35280
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H5

<400> 35280

agcaaagcac gctctggaga aatccttcgt ttaccttcac cagttgaccg cactagtggc 60

cgtcgtccga ccacgatgag cacccgcgcg gcaggatccg ccctcctccg ccacctgggt 120

ccgcgcgtct tcggcccagt tttttctccg gcggtcgcgc cgccgaggcc actgctggcc 180

ttggccggcg gcggggaacg gggcggggcg ctcgtgtggg tgcgggtgcg gctactgtcc 240

accttcgtcg tcgaggcgaa ggaagaggtg gcggcgtcca aggggaactc aggaagcacc 300

gcggcggcga aggcggaagc ggtggaagcc gctaaagagg gtgacggaaa gagagacaaa 360

gtggtgagca gctactgggg cgtcgcgccg tcgaagctga tgaacaagga cggcgccgag 420

tggaggtggt c 431

<210> 35281
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-005-Q1-K1-H6

<400> 35281

ctggagtgaa gctttcatca tttgtgattt atcatttatg caacttatgc attgtgtttg 60

attgttgatc atggcacctt ttcactgtgt atttacatca atggttgttc cttttcaagt 120

ctagcagctg tgctcacgca acttcgtatt atttgttcat aataggttga gggaagttga 180

agcaaaagtc taacaaaaaa tgttttacgg gggatatgct taccatggca actcgtttga 240

gcaaacatac tctttgttat ccagcatcgt tttttgataa gccacacctg gaaggcggcg 300

ataaagtaat aatgccacct tctgcccttg atcgtcttgc ttccttgcac atcgagtacc 360

ctatgctnat tgagctgcac aatgatgcaa cccaacggat ttcacact 408

<210> 35282

<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H7

<400> 35282

cggacgcgtg gggttcaaga acctctcggt ttaggccaag acggccatcc tgctgtacca 60

cgccgtgccg gactactact ccatgcagtt cctcaagtcc aacaagggca aggtcaccac 120

gctcgccacc accagcgtcg ccaagaagga ctacacctac gaagcggaga gcaaggacga 180

caccgtcacg ctcgacacca ccgtcgtcac ctccaccatc caggccaccg tcagggacga 240

cgacccgctc gccgtctacg cttgctccaa gttcctgcag cctaaggagc tgttcaaggc 300

caaaaccgct gatctcgcgc ctgcgccggc tccacaaggg cccaagaaga agagcaagaa 360

gaagcccacc ggcacttcgg cggccttcgc gccctcggac gatgaatctg cagatggccc 420

gtctgccgac gacgacttgt tcgatgatg 449

<210> 35283
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H8

<400> 35283

gatcgcgtga tccgaccttc ttgtccttct atctgttgat tctgtggatg ccgggaacca 60

tgcgaagctt tcggtgatag tgtccacagg agcattaccc tgtaccgaaa ctgatcttta 120

taacttacca ccaatgctcg aacatgttgc tggttgctgg tatttttagc actgttctct 180

ctggctaatg ggtctgaaga catctcaagg ggatatgtgg tgcaatctga gttctttaaa 240

gggcatttgc acttgtggat gttgattgtg gtgcaacctt ggcttgctat aatttttaga 300

taccgtttag ttgactagca ttagcacgct caaatgca 338

<210> 35284
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H9

<400> 35284

gacgcacgcg tccgcccacg cgtccgccca ctcgtccgtc cacttttccg gccgcctgtc 60

ccagatccag agaaaggcat aacgggcgtg gagccagttg ggccagggaa gatttaacca 120

gtcgggcccg gaaggagcct aagggttgga tctgatgcta ccaggtcgct gagcatcgct 180

acggaagggg gcagcttctg attccggcag atggctcctg aaatgatgga ggaggggcaa 240

tcagctttct ataccgggga tgacgctctc ttgtcatcag gttttgg 287

<210> 35285
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A1

<400> 35285

cggcgacccc gaggccttcg ccgagcttag gtgaaggagc tcaagaacgg ccgtctggcc 60

ctgttttcca tgttcggctt cttcgtccag gccatcgtca ccggcaaggg cccgctcgag 120

aacctcgctg accacatcgc tgacccagtc aacaacaacg catgggccta cgccaccaac 180

ttcgtcccca gcaactaagc tcaacggcta tgctatgcaa cttcattgtc tttcggatcg 240

gagagggtgt acgtacgtgg attgattgat gctgcgagat gcatgtgtgt cttttgtttc 300

acgttgcatt gcataggcaa gtcgagatga tgagttggcg ttgtacacta agatgaacca 360

tgtttgtgca atagtggtgg gttttgtttc ctgcttgtta aattgtgata tccattaatt 420

tgtttttctt ctat 434

<210> 35286
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A10

<400> 35286

gatggaacag cgcctaaagt tgagaagcca tcggttacac cacctactaa agttgattat 60

ggcacggatc tctttaacat gttgtcaatg gatggaacaa cagagaaaga gtcagcttca 120

tcttcaaacg acgataatgg ctgggatggc ttccagtctg cacaaccagt acctagttca 180

gagaaacaag attctgccaa accagcagaa agcaagaccc agtctacatc tggaatggaa 240

gacttattta aagactcacc agctgtgcca ttatcctcag ctccagctga ttcccacgta 300

aacgctaaga atgatatcat gagtttgttt gagaagctat gctttgcagt ccaatatggt 360

atcacctttc gcttgccatc aacagcagct tgcgctcatg tctcagcagc aagc 414

<210> 35287
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A11

<400> 35287

gacccagcgc gtcctcccac gcgtccggct gtacaacagc ttgcttggat tattaactca 60

acaagttcta ctgaagctga gttgaaatat ccaaactatg accaaaattt cctcatatct 120

gtttcaacag taacatccct tttggtaact catacatggg acagcgtagc agcattggct 180

ctccatgact cttctatgct attaaggaat catgcaatgg cattgcttac tgaatatgtg 240

ccttttgttg ataggaagca cctgcagtcc ttcctttcat ccagtaacgc tatcctgact 300

ggcttgggac aactttctgg tgtaattgaa aagggctatt ttacacgaat gtctttgctg 360

atgttttcta aggcatgtct ttattctaat cctgaagata tcgctttgat acctgaatgt 420

gtttggcaca agttgaaaac atgcaacatc aac 453

<210> 35288
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G8

<400> 35288

cgggcgcgtg gggtgctgtg ggcccccggt gcgagttaag ctgttcgacg atgtttctgg 60

tctctgccat gaccttgaca acgggatgca gccaatcagt gtcctcttcc cgtacctccc 120

aatccctgcg cataagcgcc gtgacagggc acgggcacgt ttggcagaaa tctttgccac 180

catcatcaag tcccgcaagg cctctggaca gtctgaggaa gacatgctgc agtgcttcat 240

tgattccaag tacaagaatg ggcgccccac caccgagggt gaggtaaccg ggctacttat 300

cgcagcgctc tttgctggac agcataccag ctcaatcacc tcaacctgga ctggagcgta 360

catgcttcgc ttcaagcaat actttgc 387

<210> 35289
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F11

<400> 35289

cgagcgatcc cactcccgat cagcagctgt tcgctcactc ttgcagctcg atcattcttt 60

ggctggtcta gctctagcct ctagccctag ctagtagcta gccactcggt cgtgtagtca 120

tcagccttct gatcgtcacc catggccact gccgaggtcc agaccccgac cgtcgtggcg 180

accgaggaag cgccggtggt ggagaccccg gctccgcccg ccgtcgtgcc cgaggaggct 240

gcccccgccg ccgaggccaa ggtggaggag ccagctgccc cggcggagac cgagccagct 300

gccgccgctg agcccgaggc gggccccgtg gcggcggatg aagagac 347

<210> 35290
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F2

<400> 35290

cggacgcgtg ggcggacgcg tgggcgcgat tctttcattc atggcggcga tgtggcggtg 60

gatgacgccg atcaagaaga gccagccgtc ggcgcacgac gccttcgtgg gcaactggaa 120

gccgaccaag aacgacacgc tcagcaaacg cctgcctggg ttcggcgcca ccatgaacat 180

actctacggc gagtcgatct gcggcaaggg atacgtcgac gccatgaacg ttataatctc 240

gcactaccag tgttaccttg acctcatggg cgtcggccgt gagcactctg gcgacaaccg 300

tgattgcgcc gagcaggcac cgttcaaccc cttcagtccg actgatgacc agaagcagca 360

gc 362

<210> 35291
<211> 420
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F3

<400> 35291

cccacgcgtc cggattaagg ctgctctagt atgctgtctg cccaggcaca gtctcctgtg 60

cgcgacattg ttgcccttgc ggctcgtgat tccaccgccc tggttggtgg accatactgg 120

gacgtgccac ttggccggag agactcgctc ggtgcaagca tccagggctc caacaatgac 180

atcccagccc ccaacaacac actccccact atcatcacca agttcaagcg ccagggcctc 240

aatgttgttg atggttggtc accctctcaa gtggtcacac cattggtatg tctcggtgca 300

ctagtttccg gcagaggcta tacaaccaga caggcaatgg catggctgac agcacactgg 360

atgtatccta cgccgcaaag ctgaggcagg gatgccctcg ctctggtggt gacaacaacc 420

<210> 35292
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F4

<400> 35292

ccggagtcca ggcagcacgc tagtcggggt gcgttttgga ggagatatgg atcggtcgtg 60

tgtgcctgtg gcggcggcgg ccgacgccct ggtcctcgtg tgctgctccg gcctctgccg 120

cggcgagcgg ctcgaagcga gggagtgcga ggacctgggg ttcaccggcc tcgctctctg 180

ctacgactgc aacgcgctct ccgagttcgt caaggaccaa gagctggtgg aggattgcca 240

taaatgttgc accgaggatt cagatgattc tatcagcaag ctcacatttt ctggagcaat 300

tattgaggag tgcatgagga aactggtatt ttatccagaa gtt 343

<210> 35293
<211> 67
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F5

<400> 35293

cccacgcgtc cgcccacgcg tccgtttacg tgtccgccca cgcgtccgac tagttcgaga 60

gggcggt 67

<210> 35294
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F7

<400> 35294

cccacgcgtc cgcccacgcg tccgcagcat tgatctcgtt ctcgccacta ttattctgca 60

gagcaacgca tcaagccttc tagaaccatc tcgccgccgc cacaccacaa cccgtcgaag 120

cgaagcaagc aatggccgga gtcggatcga aggccctcgc cgttgccgcc gttctggcgg 180

ccgtctccct ctcggtggcc gccgcggccg aggcgccggc gcccagcccc gtctccgccg 240

ccgtcgcggc gtcgtcgccc ttcgccgcgg ccctcgtcgc ctccgccgcc gccttcctct 300

tcgccgccgt ccgccactga gccgatgggg cctcgtgcct gcaggctacc tagcagtact 360

tccgccgctg ctgccgccgc cgcctagatc tatttattgg agtgctatcc agtagtacta 420

gtagtagtga gaattcttcg gtgctgtcgt g 451

<210> 35295
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F8

<400> 35295

aatcccttcc gacccagagc gacgcatacg tccgcaaacc caaggtcacg atcttgattt 60

tataccctcg agcagctttc ttggaccgga atatgagtgg caatggtttt tgatgccaac 120

ctactacgtt acaagacggg caaccagatt ggttatggaa ccaaccaaat gtgcagcatg 180

cacaccttat tcaagtctgg tggcaccaat agatatatgc tatgtctagt taaattcttt 240

gtagcgctgc gccgatgaag cctaacatgg tgcgagtttt gttgtttcgc cttttgtaca 300

gtatatatct ttgcccaatc atttcgtcat gatatgatat caactgatgg gtatagtttt 360

ggtcggaccc acggaaagca atgggaaaaa aatctactag gtgtgt 406

<210> 35296

<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F9

<400> 35296

cgaccacgcg tccgcccagg cgtccggaca gggtgaagaa ctgttttatt ttcaacgagc 60

cgaggtgcgt cgcggctcgg ggctacgaca atggcttgca cgcaccggga aggtgttccg 120

ggtgccccgc cggaggcaac tccaccacgg agccgtacct tgtcgcacac catctcatcc 180

tttctcatgc agctgcggtc aggcgatacc gcgacaagta tcagcttcac cagaagggga 240

agattggaat tctcctggat ttcgtgtggt acgaaccttt cagcgacagc aatgcggacc 300

aggctgcagc acagcgagcc agggacttcc acctaggctg gttccttgac cccattgtac 360

attgacggta cccgtacttg atgcaag 387

<210> 35297
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G1

<400> 35297

cccacgcgtc cgctttcatt cgccgtcgct ttctgttctc tgctgccgtc gccatgggga 60

gaaggcctgc gagatgctat cgccagatca agaacaagcc ataccccaag tccaggtact 120

gccgtggtgt ccctgacccc aagatcagga tctacgatgt tggcatgaag agaaagggtg 180

ttgatgagtt cccctactgt gtgcaccttg tctcttggga gaaggagaat gtctccagtg 240

aggctcttga tgcttgtctt attggcttca acaagtactt ttcctatttt gcaagaaagg 300

atgcctttca ccttttggtc ctggttcacc cctttcatgt ccttcgtatc aacaagatgc 360

tttcgtgtgc tggggctgat aggcttcata ctgg 394

<210> 35298
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G10

<400> 35298

cgacccacgc gtgcgcccac gcgtccgccc acgcgtcctc ggattcgtgg gcttcaacag 60

gttgcatgag accgggaggc aactcctgat gctgcttttc ggactgatgt cgctaagcgt 120

gcatttgttg gttggatgag agatctacgt ggcatagcta tggcaaccaa cagccgcaag 180

acatatggcc tcctatttga ctggttgtat ccatctcgca tgccacttct gctgagagcc 240

atctcacttt gcactgatga accagaggtc accacaccct tgctcaagtt cacgtatgaa 300

tttgttttga acaaagctca aagactgaca tttgattcat catcaccaaa tgggatcctt 360

ttattccgag aggttagcaa gataatcgtg gcttacgggt cacgaattc 409

<210> 35299
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G11

<400> 35299

aaaagaacat aaaaaaaata aaaaattaaa atgtcaaaca aaaaaaaaaa acctagggga 60

cggagcattc atacaacgtg aatggctata ctataatctc acctaagtta acaatgaaat 120

gaacgtcgct agacatcgca gggactgtga aaacactaac attacccaaa tta 173

<210> 35300
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G12

<400> 35300

ccgacgcgtc cgcccacgcg tccttccatt cgtccggtct ccccccttcag gatgtgtagg 60

agattggtgg tattggaact gtccctgttg gacgtgttga gactggtgtc attaagcctg 120

gtatggttgt tacttttggg cctactggtc ttactactga ggttaagtcc gttgagatgc 180

accatgaggc tctccaggag gcccttcccg gtgacaatgt tggcttcaac gtgaagaatg 240

ttgctgtgaa ggatctgaag cgtgggtatg tggcctccaa ctccaaggat gaccctgcca 300

aggaggctgc tagcttcacc tcccaggtca tcatcatgaa ccaccctggc cagattggca 360

atggctatgc cccagttctg gactgccaca ccttacac 398

<210> 35301
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G2

<400> 35301

caaaccctag ctcccgatct tgatgtgtaa ccctcgcgtc ttcttcgaga ggacggtcgg 60

ctgctccccg gtggacctga tcgtgatgga gctgtacgcc aacgaggtgc ccaagaccgc 120

ggagaacttc cgcgcgctgt gcacgggcga gaagggcgtg ggcaagtccg ggaagccgtt 180

ccactacaag ggctccacct tccaccgcgt catccccgag ttcatgtgcc agggcagcga 240

ctttacccgt ggcaacggca ccggcggcga gtccatctac ggcgagaagt ttcccgacga 300

gaagttcgtg cgcaagcaca ccgtccccgg tgtgctctcc a 341

<210> 35302
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G3

<400> 35302

gggaactgag caggcccatg gcacaggcta tggtggtagt ggttttaagt ttaacgagga 60

agaggatgaa gcacggaaga ccgcgaagaa ggctcaggca agggaatatg gatatgagga 120

ggacaagtca gattcagatt ctgatgatga aggggggagtg cgtaaggcag gaggtgatct 180

ggcagcacaa gctattggca atgctcatgc agctgctgct ttggttgcaa acaaggctgc 240

taataatgca tgatcagcaa ataccaagat ctgcaacagc ccccttgatt cctttactca 300

cagcatcaaa ccaacaaaat gattgaggcc actgctcggg cactttaagc tgcaatggac 360

ttgcaacaaa atctggcaag gatacaggcc catgcagttc cagaacacta tgaagctgaa 420

cttgagatta atgatttccc ac 442

<210> 35303
<211> 157
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G5

<400> 35303

ccaacgcgta cgtatactcg aagcttcact ttgtggtgga cgcgccaaac attatggtca 60

ggagcatcat ccgggacagc gctgacatca agcctatgac atacagccag gacactaagg 120

atatgctcaa gatctacaag gatcacgatc accacgc 157

<210> 35304
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F10

<400> 35304

gccgcgctcc tgatccttat ctcttcgcgt gctgcatcgg cgcccgccgg gaggcggatg 60

gccgccgcct cgtccatgtt gtgggtccgc aatatccgtc gcttcgtcga cacgggcgcc 120

ggcctcggat ccgaggccat catggaactg gagactaaaa ggatattgct tgagattttc 180

aaggagcggc agcggaagag tgccgaggct ggttccatcc caagttttta caagaaacct 240

gaagaaggat ccattagctc tagagttcaa aggttggcca agtacaggtt tctaaagaaa 300

caatcagagc ttctgctgaa tgctgatgat cttgatgcca tgtgggtttg tctcagagaa 360

aattgtgtta tcgatgatgc tactggtgct gaaaagatga attatgaaga tttc 414

<210> 35305
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G6

<400> 35305

cgaccacgcg tccgctacgc gaggcgtccg gacacttgca gcttgcctct gatgacggct 60

gagagagaag tgctcccgct ctttccttat cttttccttt cccttaggat cggacgatga 120

agatggttgc atttttaat ggccttatgc atttatgctg cttgtaatga actattattc 180

cgtcataact accagttact catcatgtgc tctttttttt attaaaaaat ggacttagtt 240

ctttcaacc gagccttatg ctagtaacct ctcaagtctg ccaacatatg caccaagcaa 300

ggagatgga 309

<210> 35306
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G7

<400> 35306

tatgatttga aaaaggggga ttgattgttc caccatggac cacattagac cagttaggca 60

ccctaagaat cgtgtcctgt cagttaccat aacttcaggt cgaagaactg agcttcgcaa 120

attactacca aactatacac atacactgtg gttgaaatat tattctattg aatctctgat 180

cagccagaaa cattggactc gtaatttgga tgagatctgg gtattggctc ttgttcctag 240

atcctgttta ttgaaactta gtgaaaaaca tgtc 274

<210> 35307
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D2

<400> 35307

gccacgcgtc gcccacctcc gaaaatttta ttttaacaaa aaaaaaaaaa aagaaaggtt 60

aaaaaaaaaa aaataaaaaa aaagtgctga cggcttcttc cccctaacca cgcgaggcag 120

aaccctgctc ccagggaggg ggcctgcggc tgtccccaag gagttcctgc cgctggctac 180

cacccactct ccgggctttc tggcgcctcc atgggcaagg acggttt 227

<210> 35308
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D4

<400> 35308

gctgcgcgtc ggagcacagc aacgtgtgct acgctgtgcc gttcgtcatc ggccccgggg 60

tgcggcgcga cggcaccacc cggttccggg acgcgcgggg gagcccgctg cacgacctcc 120

tcgccgtctc cagcttcagc gagtacaccg tcgtggacgt gaaccaggtg gtcaaggtcg 180

accccgccgt gccgcccaag ctcgcctgcc tcctcagctg cggcgccggc accggggtag 240

gagcagcgtg gaggtctgcc aaggtggagc caggatccac tgttgcaatc tttggccttg 300

gatctgtcgg tttggcggtg ggccaaagcg cgaaaatgtg t 341

<210> 35309
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D5

<400> 35309

ccggcccgac ccacgcgtcc ggattctggc acgggtgagg cacaagtagc cttttaagct 60

tgcgcggata ttgtgctgaa ggccaggaac gcttgatagt ctatgattat atgccaaacc 120

tgagcataca cgcccaactt catggacagc acgcagcaga gtgcaatctc agttgggaaa 180

gaaggatgaa gatcgccgtc gattccgcag aagggatcgc ttatctgcat caccatgcga 240

cgccacacat cattcataga gatgtcaagg ctagcaacgt tctcctggat tcgaatttcc 300

aagctcgggt tgctgacttt gggttcgcca agctag 336

<210> 35310
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D7

<400> 35310

ggagcccgtc gcggccgaac cggccgccgt ggcggaggct gctgctcctg ctggtcccga 60

ggagactcct gcggtcgagc aggaggcagc cgccgaggag gaggctgctg ctgctcctcc 120

tgctggtgcc ga 132

<210> 35311
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D9

<400> 35311

cccaggcgtc cgcccacgcg tccggtggat tttgttttcc cgtacctgtt gcagttcatg 60

ggtgagtaca ctagcaaggt ggacgattta gtgaaggaca aaatcgagtc acagaatgaa 120

gaaagagcca aagagaagga ggagaaagat cttgtggctc agcagaacat gtatgcgcaa 180

ctgcttcctc ttgctctgcc tgctccgcca atgcccggca tgggtggccc ttcacctccg 240

atgggcggaa tgggcatgcc tccgatgggc gggatgggca tgccgccgat gggccctggt 300

ccgatgccag cattcgggat gccaccaatg ggaagctact gagatgagat gtttt 355

<210> 35312
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E1

<400> 35312

cacagtccac agcccaaagc ggcggtcgct tttcgtttaa acccttaagc ccgcacaccg 60

acgaggcgaa cggaccagag tcggcgagcc cccaggaggc gccgactccg cctccggctc 120

tgaccggtct ttagaccccc cctgccccag gcgacgacga aaccagcagc gctgcgcagc 180

gccgaccact ccgggaacct cacgatccag gggagatgct ggtcgccgcc gccgcctcgc 240

cgtcgcagcc tggaaccgtg tttcccaggg cggaaggact tgggctcaga ttcggcggat 300

cttgggctgg tctcgtgcat tcgagccgct gcaagccttt tggtaacccg gttttttcga 360

gggaaaggga acctaaactg gttgggccac tttggg 396

<210> 35313
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E10

<400> 35313

gttggaccca agaccattca tgtttctact ggggagaagc tttctgtttt tgatgcggcg 60

gtgagataca aatctgaggg ccatgctact ataatcctcg ctggtgctga gtatggaagc 120

ggcagttctc gtgattgggc tgctaagggt ccgatgctcc tgggagttaa agctgtaatt 180

gccaagagct ttgagcgtat ccacagaagc aacttggtgg ggatgggaat cattcctctg 240

tgcttcaaag ctggtgagga tgctgattcg cttggcctca ctggacatga gcggtacagc 300

atcgatctcc ctaccaacct cagtgagatc cgtcccggcc aggatgtgac tgttactacc 360

gacaatggga aatctttcac ttgcatcgtt cgctttgaca ctgaggtgga gctggcgtac 420

ttcaaccatg gaggcatcct cc 442

<210> 35314
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E11

<400> 35314

cccaggcgtc cgaggcgcgc cagatctttt tcagtttcgg caaccctaca gtcgaggtcg 60

gcgtggtttg ctcagatgga acctttgcaa gggcagctgt tcccagtgga gcatcaactg 120

gtgtatatga agctctggag ttgagggatg gtggctctga ctatttgggg aagggtgtct 180

ccaaggctgt gaacaatgtg aattctgtta ttggacctgc tctgattggc aaggacccta 240

cagcacagac tgagattgat aacttcatgg ttcaacaact tgatgggacc aaaaatgagt 300

ggggatggtg caagcaaaag cttggtgcta atgcgattct tgctgtgtca ttagcttgtt 360

gcaaagctgg ggctagcatc aagaggattt ctttatacca gcacatt 407

<210> 35315
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E12

<400> 35315

gtggaccatc agggaaacga tgtttgccct atacctggaa caacaaaaat cgagaacttg 60

gaccagaacg tgggggcgct ttctgtgaag ttgacaccag atgagatggc cgaactcgag 120

tcctgtgctg ctgcaggtga aatcttgggt gaccgttatc ctcaaatggc caacacctgg 180

aaggactctg agaccccgcc attgtcttct tggaaatctg agtagccaat ctggtgtctc 240

ttcaattctg ccaccgtcac attggtgtat ctccaaattg tcggactgca gaagatactc 300

aggtgcactt tgcaaaagcg tccatatgat gtgcttgcct tttgcaagct atgatgtttg 360

gtacttggtg t 371

<210> 35316
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E3

<400> 35316

cccagtcgca catcgggtcg tggcaagctt tcgactcgga agcgccaccg ctcccctgtc 60

ggtctgcgtc cacctcctgt gccggctgcc tgcctgccta ccacatcaat cagtgtgacc 120

atccagcaca ttcccatgac gtgccacgcc agcctgctgc tgccggcgct cgccgccgtc 180

ctgctctgct gccccctcgc gcaatgcggg cagcagaact acacctccat gttcagcttc 240

ggcgactcgg tcaccggcac cggcaacctg ctcgtgtcca gcccgctctc caaccacatc 300

gtcggccgct acccctacgg catcacctaa cttcaccggc c 341

<210> 35317
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E4

<400> 35317

cccgggcgtc cgagaatgtt gatggcaaca tcacttcaga tgatgatgat gatgatgacg 60

gtgagttgag tgatgatatc agtgatgact atgattctga cgcaagtgag aaaagttttg 120

agactcgaaa aacgaacaag tggttcaaag agttctttga agtattgaat acattgagtt 180

tggaacaaat taatgaacaa actcggcaat ggcattgccc ggcatgcaaa aatggacctg 240

gggcgattga ctggacataa ggctgcagcc tttagtgagt catgctagaa caaagggttc 300

tacaagggtt aaactttaca gggaattggc tgcattgctg gagaggagct ttctcgcagg 360

ggaacttagt ggtactcagc ggtgaacaat ttgggaaat 399

<210> 35318

<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E5

<400> 35318

cccacgcgtc cgagctgtcc tagcattttc tgctggtgat tctggcgaag tggttgtgga 60

ggaggttgcc cgtatcgagg cagagaaaat agctgaagca gctgtaaatg cacatgctgc 120

attggttgct caggtcgaga aagatcttaa tgcaagtttt gaaagggagc ttaaggagga 180

aagagaaagg gtagagaccc ttgaaaaagt agctgaagaa gctatgttgg agctagatag 240

gttgatggca aaaagagagg aagagaagaa tattctggtc aggggcagag ctgctgttga 300

gtctgaaatg gaagttctgt tgaagttgag gagtgaggta taggaacagc tgcagaacgt 360

actgagcaag aaagtggagg tgtcgttcga gaagagtagg attgagaaac t 411

<210> 35319
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E6

<400> 35319

aaagagctgt cgtcgaaaga tggccttaat acaaaaaaga tctttgtggg tggtatccca 60

gcatctctta ctgaagataa attaaaggag cacttctcat cgtacgggaa ggtggttgag 120

catcagatta tgcttgatca tagcactgga cgttcacggg gctttggatt tgtcacattt 180

gaaagcgagg atgctgttga aagggttatg tcagagggga gaatgcatga tcttggaggg 240

aagcatgttg gaattaagaa agctgaacca aagaaacctg gcgctggtga ttcaagctca 300

aacggaagac acagccgtgg tggtggtcat cgtgattcat accgtggtag tggtggttct 360

gtgaacagcc gtggcggcta tggatattgg ggtggttacc gatcagctgc tgcagcatat 420

tatggcagca cagcatatgg tg 442

<210> 35320
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E7

<400> 35320

cccacgcgtc cgcacataca aagggtattt ttgttgctac tccagttttc tttgctgata 60

cgcaagaccc tgaactgagg aaagttgaga cttcctttct ccttggacca ctcttagtct 120

gtgcaagcac tttacctaat aaaggagctc atgaatatgc acataagtta ccgaagggca 180

tatggttgtc ttttgatttt gcggatgcac accctgatct gccggtgctg tatctacaag 240

gtggatcaat tctttctgta agtcttccta ttaagcatgt tggtgaagca agtttggagg 300

atgacctgtc actaattatc gcattgaatg aaaatggtaa agctgaaggt gttctctttg 360

aagatgcggg agatggatat gcattcacac agggagacta tcttttgaca tattatattg 420

ctgaactcca ctcatcagtg ggtactgtca aaatcgtaaa at 462

<210> 35321
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E8

<400> 35321

cttggcgctg gcccaccctt tttctgcatt taaggtagca aaacttttct tggataatat 60

ctataagctt catggtatgc cggacaatat agtatctgat cgggatagag tgttcacaag 120

tctgttctgg cagcaattat tcactctcag tggcacccaa ttatgcatga gttcggctta 180

tcacccacaa tccgatggcc agacggagcg cgtaaactag tgcattgaaa cttatttgcg 240

atgctttgtg cacgcctgtc ccagcaaatg gtaccaatgg ttagctgttg cagagttctg 300

gtataatacc aactttcatt cagctctgaa ttggtctcca tttgaggtgt tatatggaca 360

<210> 35322
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E9

<400> 35322

gatcgaccac gcgtccgcag ggctgaactt cgtcagcatg ggtttttaga ttctccaggt 60

tctggcttga ggcagcgttt ggcatctgaa aggaaatggg cccttggtct tcagtctcga 120

gcacatccac gagaaataat aagtgaagtg cttaaagctc tgcaagaact gaatgtttac 180

tggaaaaaga ttggacacta caacatgaaa tgcagatgga gtcctggctg ccttgagagt 240

atgatgcata acagtgatag cttcagtgcg gagtctgcta taattgaaac tgatgttttc 300

atggagaaat caaccccgac agtgaagttt gagattcagc tttacaaaac gagggatgag 360

aagtaccttc ttgacctgca aagggtcagt ggatcacatc ttctctttct ggac 414

<210> 35323
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D12

<400> 35323

cccgcgcgtc cgcccacgcg tccgttcact cgtccgccca cgcgtccggg ctcgggggg 60

gtctcccccc ccgctccgca tccacagccc cgtcggcggc cagggcccag cctctccccc 120

ccgccgccgc gccacgccgc atcccagcgc gactttcggt tgccgcgggc gggggcgagc 180

agcagctcgt caccgcgcag gaaccggcgc acgaacctga ttatggagtt gtcagcattc 240

accatgtcgg gatcctgtgc gagaatcttg agaggtcact ggcgttctac aaggacctac 300

tgggtctgag ggtgaatcca gctcggccaa acgacaagct cccgtacagg ggcgcttggc 360

tctgggtggg ttctgagatg atccacctga tggagctgcc gaatcctgat ccgttgaccg 420

gacgccccga gcacggcgga cgtgatcg 448

<210> 35324
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F1

<400> 35324

acggttagga tagtgcatag aaaacgatta aattatcgtt cgatatgtga ataatggtaa 60

aggggcaggc gattttaggt gatctgtaca tggatgcttc actgctgaaa gagtgtttta 120

aagataattt acatgtgccg atttaattta tcattggaca atatatactc tttgacaaaa 180

ccccttgattc atcaaaattc ttgggttttt atctctggca tattctaaaa tattaaacgg 240

atattttaac ttatgtattg tctatttaat attgatagaa atcaaccgtt ttattccaaa 300

aactttgcct ttgctttttt tcattacctt cctatataga tgcacaatat gcatctaaac 360

tttctataat tttacatcta tagctttatt g 391

<210> 35325
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-005-Q1-K1-B8

<400> 35325

cccaggcgtt cgaaagaaga tatagtagtg tgagtagtat aggagaaaca aaacatcgca 60

gcgtagttcc ttttttttta ctttgtttgt ttgtttgttt ttttaccatg aaaccaaagg 120

tcagcagatg gcagcagcaa gcaacagatt atagcgcttg ctctcctatt acattacatt 180

acatgatgca tttagcacta attagtagta gttactatta ccagcccatc taggtagctg 240

cttcttcatg accatgatat gcacagcagt actaggggggg aggaggggtg tgtgatgcac 300

aagaagatgc tgctgctacc cacatgggac tacactggat gcagacagac gtgacagacc 360

agctggtcca gcgtgaagat ctcacaggat tagaagaaac anacgagtcc cggtcccacc 420

agtgta 426

<210> 35326
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C1

<400> 35326

ccgggccgac ccacgcgttc gcggacgcgt gggcggcagg cgccggaggt tttgctttcc 60

gggctacatg gccaacacgg aggcgtggcg cgccaaggcg cggtcccaga gcgcgccccg 120

ccagcgcacc gacgcgctgg agcggctgcc cagccgcagg aagcagggga cgccgcccag 180

ggccgtcgcc aggatgcact tgcagcgctc gtcgtcgctg gccggcaact actcctcccc 240

gtggtcgtcg tcggctgcca ggctcgacgt ctccgctagt tgtcgctcaa ggacagcgag 300

tgcggctcca ccagcttcgt gctcaccgcc gtcaccctct acagccggac gcggtcgctc 360

gtcggctccg aggtgcgccg tggcctgtac tgagaggagc tagctcgtgt tcctggcga 419

<210> 35327
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C10

<400> 35327

gacccacgcg tccgcccacg cgtccgatct agtttcgctt cactttgccg ccgcatttta 60

atttataccg aaagtatcta ccttcacctc acaaatatgt gtgtctacca ctttctgggt 120

ctggagatag tatggtacac acacttctat ttgacatggt gttagagtgt taaagcaacc 180

ataagagaca taagagacta gacaaatcat tttgtaaagg taaatttggt tattatcaga 240

aaaaaacatc tccaaccgac tttgtaatag ctcttcaaat ttagtagctc tctatctctt 300

caccttcacc tttacttttct aatctacttc acttgctgct attcagtttg ttggtttaca 360

gagtctcggt tagattagtc tacttttttt ttttga 396

<210> 35328
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C11

<400> 35328

cgaccccgcg tccgttcagt tcatggtgtt gtatacagca ttcttgaatt cataaagttc 60

ataaaagctt cttgggccgg tgaagagaag ttgctgagat tgctctgcag ctggagattc 120

ccagtaccaa gaccctctgt ctggatgtta caacccagtg gaacaccacc tatctgatgc 180

tgctggctgc tttggattat aagcagactt tcactacact agaaacatgt gatgataact 240

acaatgaagc tccatcagca gaggattgga agaaagttga ggctgcctgt aattacctga 300

aactgctata cgattctgca catagtatca tggcggcagc aaacccaact ggcaacatct 360

ttt 363

<210> 35329
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C12

<400> 35329

gatccactcg tggcgccgct tgcctcttgc gccttgcctg ctttcttgcc tccctgctcc 60

ctcctcctgc ctggttctca tcgcttctct gattcttcct ggcctttgcc ggagcaaggc 120

taggcgcgag gagagggtgc tgtgctcaac cagaggtcat ctgcgctacg cgagcgcact 180

gcctgttgtg ctgcactgcc ggagtatcag gggaaaaccc tgaaatcatg gaaatcacct 240

tattgcatga tgaatctgat gcatgaagca ccattttgct accgccattg ttgtcatatg 300

gtccaagaac aatggttcca atacaagtac catcgtcatc aga 343

<210> 35330
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C2

<400> 35330

actgcctcag acatgcttaa agcctaccac tgttttcttg cagcaagccc atttaagaga 60

ctttcgcatt ttctttccaa tcaaacaatc ttgagtttga ctaaaaatgc atcaaaggtg 120

catatcattg acttcggcat ttattttgga ttccaatggc catgcctaat caggcgtctt 180

tccaagaggg aaggtggtcc acctgttctg cgcatcactg gaatcgacgt acctcagcca 240

ggtt 244

<210> 35331
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-005-Q1-K1-C3

<400> 35331

gctgccaatc gccgacctgc tgttcgtttg ccgcacatnn gggggcgtac naagtatggt 60

ggtcggatac tatggaggac ggaaggctag tcggaccgtg atgccgcttc gtggccagcg 120

cgtggcgctg catgggagta cangtngcag cagccgtcca atcgtccggc ctcaccatgg 180

cccaacccgc cccgacaagg gcccgtcgtc tcggctacaa ggccaagcag ggatatgttg 240

tctaccgtgt ccgtgtgaag cgtggtggca ggaagaggcc tgtgcccaag ggtattgtct 300

atggcaagcc caagcaccag ggtatcaccc agctcaagtt ccagaggaac aagaagtctg 360

tcgctgagga gagagctgga cgtaagcttg gtggactgag ggttcttaac tcctactggg 420

tgaatgaaga tagttcctac aagtacttt 449

<210> 35332
<211> 344
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-005-Q1-K1-C4

<400> 35332

tttggctctt ttaggaaatc cacgtgccag tgattctcag tgccgtggca ttgaattgag 60

tgtaaatgtt tttttgtaca aaaggatcaa agaaacagat aagaggacag ttatgaggaa 120

gtcacggtgt tagatccctg agcatgaagt tctcggtcga agatccatgt tgctgtagta 180

acgatgctgt tccaacttcc tttcctgata aaatgacaat gtagaaatag ttctgaagtt 240

tatgttgatt tgttgacagg tgggtcaatt gtgatcctgt acgattgtta tgaatccctc 300

ttgttttgtt ttgatgttat atntgctctt aatttaaagc ttat 344

<210> 35333
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C5

<400> 35333

atccactcgt ccggcgggcg cggtgatgct cacggacttt gttttctggt tcatcatctt 60

cccgttccgt gacggagaag gactacagcc tcaacttcct gttgatcggg atgcattcgg 120

tgaacgcagt cttcctgctg ggcgaggccg ccctgaatag cttgaggttc ccgtggttcc 180

gggtcgccta cttcttcctc tggaccgcgc tctacgtcgt cttccagtgg atcgtccacg 240

cagctacgcc gatgtggtgg tctttcccgt tcctcgacct gacatcgaac ctggcacctc 300

tgtggtacct ggcggtggcg gcgctgcagc tgacgtgcta cgtggtgttc tggctgctga 360

tcaaagtgga acaccacctg cttgccaggt gcttttcggt ctcgtacgta cgctagctag 420

gggctatggc acaagcc 437

<210> 35334
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C6

<400> 35334

ggaacggaga gctggaaaag gcatgtaagt cccggctttt gaccccaagt accctgttga 60

gggcaatggc ggccacctcc gaggaggcaa tcaagcagtt ctcggcgctc atggagcagc 120

tagaggagcc gctaaagagc acattccaga atgtgcatca aggaaatctg agagggactt 180

tgatgcgttt tctgaaggct agagaatgga gtgtgcctaa agcttataaa atgctaatgg 240

attgcttaaa ctggagagta cagaatgaga ttgacatcgt gttagctaaa cccattctgc 300

catctgatat atatagaggt attcgg 326

<210> 35335
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C7

<400> 35335

gacccactcg tccgcccacg cgtccgaaga tatccatgct tattttcaga catgcaatat 60

ctgccaacag gccggaccgg acaggaccag ctatcccggg ctgctcgcgc ctctacctgt 120

tccccccgcat gcatggcatt ctatatcaat ggacttcatt gaagggttac cgaagtccgg 180

aacaatggat tgcattctgg tggtggtaga tcgattctca aaatatggtc atttcttggc 240

gctggcccac ccttttttctg cagcaaaggt agcaaaactt ttcttggata atatctataa 300

gcttcatggt atgccggaca atatagtatc tgatcgggat agagtgttca caagtctgtt 360

ctggcagcaa ttattcactc tcagtggcac ccaattatgc atgagttcgg cttatcaccc 420

acaatccgat ggccatacgg agcgcgtaaa ctagtgca 458

<210> 35336
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C8

<400> 35336

gtctgctgtt ttggtctcgc tggtttaggt cacagcctcc tacaaagccg ctgctcggcg 60

ggcgagtgcg actccacctc cggctcacat cctcagcaga ggcattgggt ggcagggaat 120

cggcatcctc cttgacgggc tctttggaac ggggactggc tccactgtct cagtggagaa 180

cgtcgggttg cttgggtcga caaggatcgg gagccgacgg gtcatacaga tctcagctgg 240

cttcatgaag cttgttctcc atgctgggga aatttggagc cttgttcgct tccatcccgt 300

tcaccatctt tgcggccgtg tcctgcgtcc tgttcgggct aagtgctgcg gtggggctgt 360

ccttcctaca gttaactaac atgacctcca tg 392

<210> 35337
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C9

<400> 35337

agccgaacgt aaagcatcag tgctgtcgtt tcaattcctg aggtcgagca aatctggtgg 60

ggtgaagaag gtgaaagtga cccagcaacc cagcaaccaa gggaagcaga ggaaaactga 120

tgaaactgga gcaactgctg gcaaagctaa gcgacccgct gtggctgcaa gaaaagcaaa 180

gcagctggcc aagaaacgca aggtggatgc atcaacccct gagaatacac acaggagcaa 240

gaaaccaaag aagtaagttg tccattgcgc tggtcatttg cccttgcttc gcattgtaac 300

aggagtttca ctaaatcaaa ttctggacga tcttgtcaga tgattggtgt actaggtaga 360

ggcaatgtg 369

<210> 35338
<211> 368

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D10

<400> 35338

cccgcccttc cgcgtggtgt gctctctgtt tccctttacg ccgtttcctc tcccgactcg 60

gtcctcgccg gcgacgccgc ggagtaggtg caacagaaac tgctcgaggc ggaggcggag 120

cctgcggctg cacagacatg ggtgatcacg aggcgcgcgg tgatgacttc gagaagaagg 180

cggagaagaa gctctcgggc tggggcctct tcggctccaa gtacgaggac gccgccgacc 240

tcttcgacaa ggctgcgaac tccttcaagc tcgccaagaa ctggagcaga gctgcatcag 300

tttacatcaa gattgctaac tgtcatttga agggagatag caagcatgag gcttgcctag 360

cgtacgtc 368

<210> 35339
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B7

<400> 35339

cgctgttggc cggtagccgc tccttctctt ccggcaccga gagggacttg tgacccaagg 60

gtctgttccc gggggatgtg gtgtttgcgc tcgtcgatga tctcaggctc aaccactcca 120

aggacccata ggccatgggg ttatgcaatc caaagaagga aattcctgct tgagccaatt 180

acagaaggcc ctgatatttg tcaaattgat ggttgtagtg ttaaattgga atacaagagg 240

aggcaagtca aatatggttt gtgtgacagc acgttactaa cttactctac tatatctgca 300

tgagaaagga tgaaccctgt ttgcatgtat actaattaat ctacggattc attaatgggt 360

gaataagatt ttatttaatt atgacagcaa acgtgacatg ccattacaat attcgttatg 420

ccaaaaaagt agttgcttat agtta 445

<210> 35340
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A12

<400> 35340

ctagagaaac gtttcaaaga ttggttgact tctcaatggc tggtataact atacatcaca 60

gtgaatttct gaaatcgatc tggccttctc tatctgatgt cattactcta gttagggttg 120

caccacgctg aagtatgatt gtgctaataa cttcac 156

<210> 35341
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A2

<400> 35341

cccagcgcgt ccgggagatc ctgcggctgg ttacttcaac ctgagcggcg agattcccca 60

ggagctgtgc gggctggaga acctcctggc cgtgaacatc tcgcacaacc gcctcgtcgg 120

gcggcttccg gcgtcgggcg tgttccagag cctggacgcg agcgcgctgg agggcaacct 180

gggcatctgc agcccgctgg tggcggagcg gtgcatgatg aacgtgccca agccgctggt 240

gctggaccac atcgagtaca cgcacggcgg cggcggcgac aacaacaaca tggagacgaa 300

cggcggtggc gtgggcgcgc cgaggaagcg gcggttcctg agcgtgtccg gcatggtggc 360

catctgcgcg gcggtcgcga tccgtcttgg cgtcaatcgt gatcacgctg c 411

<210> 35342
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A4

<400> 35342

cccagcgcgt ccgcttgtaa catcccttaa atctgtttct gaggcaactc aagaggcacc 60

agtaggttca ctatatcttc taaggcaacc ttggtcagct ggcccagctg aagtatttaa 120

agcacaatca gccgctgcaa tcgaggctat tcctctactt cagtacttga tacagtctgg 180

cccaccgcgg gttcaagaaa aggcagaatt gcttcttcag tgcttgcctg ggactcttac 240

tgttacgata aaacgttgca acaatctaaa gcaatcagtt ggaaacccta gtgccttctg 300

caagcttact cctggaaaca attcgccaag gctgacaaag attgtctcga ctggtgcaac 360

acctgaatgg gatgaagcct ttgcatgggc atttgac 397

<210> 35343
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A5

<400> 35343

gcgtgggttt tttacccttt tccttttgct cgtggtttcc attcatatgg actgggcaga 60

cgcgacttct gttcaaccag gcgttcagca gaggtttgga gatatctctg atccttgctg 120

gcaacaatcc aaatgctggg atctgatggt ggcagttccg gccttgcttc attaatctgt 180

ggacctttcg tacttgaatt aatcctcact tctcaagtta acagtagcga tgtacatatc 240

tgatatgatg gatgtgcacc ggagttgttt gccgtgtgta taaatatcaa cggctattat 300

tctagagttt actggcttgt cccttgattt ttttaacggg atgaactttt gtatgggccc 360

tttctttgac attgacatat g 381

<210> 35344
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A6

<400> 35344

acccactcgt ccggccacgc gtccgaccaa atcagctctt gtgtggttag tttacaggaa 60

tgttcttgtg tggggctcat gttgagtttt ccattttatt tatgtagcca aagtagatgt 120

attatgcatg tcgtcgtttg gaaacttgac aaaccgatta tacttgttta ggttgcttca 180

gaaaagatgc ttgagaaact gaaacataaa tctggaagat gtgagcctgc tttagaaaag 240

gctattgtgg aactggagca tggtataaac ggtttgaagt attttgtttg ccttgatcca 300

cggttgtagg tttgttctgc cactgatacc aggtgaagct tcacccttca gatccctgtc 360

gtgacgaatg gttcgtgggt gctggggagg gattggatcc gttggattca tgagatgtgt 420

ggattgttcc tgccagatat cgtgacatgt gtttagatct a 461

<210> 35345
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B10

<400> 35345

cccgcgcgtc cgccgcgcta gctgaggact ttacagcggc acagaggtgc gacgtgacga 60

ggacgactac gcaggcgcca cacatggcat cccagctctc cgccgccgtg ccccggttcc 120

acggcctccg gggctacgcc gcgcccaggt ccgcggtggc ggcgctgccg tccgtgaggg 180

tgggcaggaa gaggtcgtcg tcgcagggca tccgctgcga ctacatcggc tccgccacca 240

acctgatcat ggtgacgacg acgacgctga tgctgttcgc ggggcggttc gggctggcgc 300

cgtc 304

<210> 35346
<211> 349
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-005-Q1-K1-B11

<400> 35346

cccaggcgtt cgcggactcg tgggcgcgtt tgncttttac ccctccccga ccagatcgcg 60

gcgaggacgc cttcgatccg acccaggccg acgccgacga cccctctcgc cgccggcggc 120

catggcgtac ggcgaccgcg tcaccacctt cgaggactcc gagaaggaga gcgagtacgg 180

ctatgtccgc aaggtctctg gacctgtggt tgtggctgat ggaatgggtg gtgctgccat 240

gtatgaactt gttcgtgtcg gacatgataa cctcattggg gaaattatcc gtcttgaggg 300

cgattcaact tcaatccaag tttatgaaga aaccgctgga ctgatggtt 349

<210> 35347
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B12

<400> 35347

gtgggatgtt cttctctttg agggtaacct attgatgctg atccggacag ctctggcagg 60

gatggagttg aatggtcctg cacttgtgac aacaaaagat gctggggatg cagtaaccct 120

tttgcagtct ttagctggtt ccacttttga cagtagccag cttgttttaa cagcttgcat 180

gggatatcaa gctgtaggtg aagcaagact gcaagaattg agaaataaac accgaccatc 240

tgctatctcc tcaatggaac agagagcaaa aggtcttcgt gtctggaggg atacgaacag 300

gcttgcatct aggctatata attttaagcg tgacactgaa ccattggtgt cgttatcaga 360

agaacagtca aatgacttga ca 382

<210> 35348
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B2

<400> 35348

agaacgcata tgaacactca tgcgaacgat tcgatttacg aatggtccct agataccatg 60

aggaggtgga atctcagcat agagcagcac gcatatgata gggccaacaa gatctaggag 120

ggcaacaggg acgataggga tgcaaagcga tcgggataag acggcaaggt cagaagctcg 180

cagatgagac catgatcaag catgtcgaga cgagt 215

<210> 35349
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B3

<400> 35349

cgacccactc gtccgcccac gcgttcgccc acgcgtccga gccgttcatt tcgacgagcc 60

attactcccc gtttgcgcaa gttccaccac gcaggcagtc aggcacccgc attgtttcaa 120

aattctcgaa tcggcccctg gttctggcag ggcagccgcc gccggcggac ggagggccct 180

ctttgcgggt gaggcaaggc gaggcctgct ttgcctcgct gtaagctcgc cggaggaggg 240

gaccgttgag gggaaaggac gcgcgtaatt tgtggagtgg atgtgccaat gctgaaggag 300

gcgcgccgcc gtccatggac gccgcgcggt gggtcgcgtg cctgctcgtg acggtcatct 360

gcttggcctg cgccgtcgac gtcgctacc 389

<210> 35350
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B4

<400> 35350

cccaggcgtc cgcggacgcg tgggtccggt gcgttaggca tctcctctcc cgccccgccg 60

cgagcaacgc ccgctaggct gctgctaccc gcagtcccca tccaccctac ccgcagtccc 120

caccgcaacc gccgcctcgg cccgggctgt gttgaccccc gttgacctcc gccagcccgg 180

ccgtcatgga cctgcgcttc ccgccgacgg cgccgtcgtc ctgcttcggc ggaggcggag 240

tgctcccggc aacgtggcac caccgccgag cgcaatcgga gacgtt 286

<210> 35351
<211> 314
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-005-Q1-K1-B5

<400> 35351

gcgagaccga aagagaggca gagcttggct atggagctcc cgtggggaat gctgctgccg 60

gtgctgctgg tcctctccgt ctcgtcctcg tcatcgtcgt cggctgctgc cacgctcgcc 120

gtcagcgctc cgcccccact gcctgttcct cctcctcgtc atgctcaaga cgccgaaggc 180

atgctcatca acggcaactt cgagacggcg ccgcggaagc tgaacaagac cctgatcgtg 240

gggcgccact cgctcccggt gtggacggtg catggccacg tggagtacgt ctcgggcggt 300

ccncagcccc gggg 314

<210> 35352
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B6

<400> 35352

actcattaaa cctacatctg gtactgctta tgtccacgga atggatataa atatggacat 60

gggtgacata tatacaaata tgggagtgtg cccacaacag aacttgcttt gggaaacact 120

gactggaaaa gaacatcttt tcttttatgg taggttgaag aatcttaaag gttctgcatt 180

aatgaaggct gttgaccact ctctgaagag tgtaaatcta tctcatggta atgttggtga 240

taagcaagtg aagaaataca gcggaggcat gaaaagaaag ctcagcgtgg caatctcatt 300

gattggggac cctaaaagtg tcttcatgga tgagccaagc acaggaatgg acccagcatc 360

aagaaataac ctatggaat 379

<210> 35353
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A10

<400> 35353

gcaggtgctg tgagatacag tttgtcaggt gagccttttc aattgcacca gatgccccgg 60

aaatgttgta gcttgactat cccagtcacc agcgacgcct tctaccactt ctagcaaaag 120

tatgtctgat gagcagtgct ggcaatttta tgaaaaatat gtatgtaaag agaactcctg 180

aaatgagcaa agacatacac atttactcta gtgctctgaa ggcgacacta acttggcaga 240

atatgattac gattcaggag tgtcgcgagg cctgtggagg tcaaggtcta aagactgaga 300

accgcatagg aattttcaaa tctgaatttg atgttcagtc cacatttgag ggtgataaca 360

atgtgctaat gcagcatgtc agcaaagcgc tttatgctga atttttgcgt gcacaaaaga 420

agcagcatcc attcaaggga ttggg 445

<210> 35354
<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-004-Q1-K1-G3

<400> 35354

cagagacttc ttgaatccac tagctaagct ttccatgtta aagttcgctc ttggtcacca 60

gcgcnaggcc tacgacgccg gctgcgtccg tgccgtcctc gccgagctca tcctcacctt 120

cctcttcgtc ttcgccggcg ttggctccgc catggcaaca gggaagctgg ccggcggcgg 180

cggggacacg gtagtgggcc tgacggcggt ggcgctggcg cacacgctgg tggtggccgt 240

catggtgtca gcggggctgc acgtctccgg cggccacatc aacccggccg tgacgctggg 300

cctcgccgtc acgggccgca tcacgctgtt ccgctccgcg ctctacgtgg ccgcccagct 360

gctcggcttc acgctcggct gcctactcct cgctttcctc gcagttgccg acagcggcgt 420

gcccgtgcac gcgctgggcg ccggcgtctg cgcgctccgg ggcgtg 466

<210> 35355
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G4

<400> 35355

ccgaccacgc gtccgggcgt tagcgatggt cctgttcatg gctgtcgccg ttctgctcgc 60

cggggctgcc ggcggcggcg cgcagcatgg cgtgtggagc atcatcaccc ggcccatgtt 120

ccagagcatg ctgagccacc gcggcgacag cgggtgccag ggcgccttct acacctacga 180

cgccttcatc gaggccgcca gcaagttccc cggcttcggc accaccggcg acgagcagac 240

gcgcatgcgg gagctcgccg acttcttcgg ccagacgttc cacgaaacca ccgggggatg 300

ggcgactgct ccggatggac cgtttgcctg gggatactgc cgggtgaagg aacataaaca 360

gacgggccca ccctac 376

<210> 35356
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G5

<400> 35356

cccacgcgtc cgcccacgcg ttcgcaaaat tctttgaccc ttcagagtgt gcttgggcat 60

atggtatgaa tatttttgac ctgaatgcat ggaggaagac aacaatcaaa gatcagtatc 120

atcattgggt caaggggaac ttgaagtcaa acttcacact ttggaagctt ggaacattgg 180

caacaagcct tattggcttt aaaggccatg ttcacccaat tgaaccatca tggcatctgt 240

taggcttggg ttatcaagaa aagatagatg tcagtagcgt tgaacaagca gcagttatac 300

attataacgg gcaaagtaaa ccgtggctgg agattggttt taaacatctt cagccatttt 360

ggacaaaata tgtgaactac tcaaatgaat tcataagaaa ctgtcatata atgg 414

<210> 35357
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G6

<400> 35357

cccgttgcaa gtatagtctc ttcggctctt gaagacgatg ggcaaggacg acgtgatcga 60

gagcggcgct ggcggcggcg agttcgctgc caaggactac acggaccctc ccccggcgcc 120

gctgatcgac gcggctgagc tggggtcctg gtcgctgtac cgcgccgtga tcgccgagtt 180

catcgccacg ctgctgctcc tgtacatcac ggtggccacc gtgatcgggt acaagcacca 240

gacggacgcg tcggcgtcgg gtgccgacgc ggcgtgcggc ggcgtggggg tgctgggcat 300

cgactgggcc ttcggcggca tgatcttcgt cctcgtctac tgcaccgtcg gcatctcggt 360

gggccacatc aaccccgacg tcaccttcgg ccctttcctg gcgcgcaagg tcctcctggt 420

gcgcgcg 427

<210> 35358
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G7

<400> 35358

ggaagcaatg gccactgcgt tcggtgtaat tgttgatttc attgaccagg aactgtcacg 60

gttcattgca gctgggaagc tgcactgcaa gattgataag gttgctggtg ttctggagac 120

taaccgacct gatgagagga atgctttcta ccaggcgacc atcaagcaag gggacttctt 180

gctgaaccgc atccagaagc tttcacgggt cattgacctg taaggactgt ttgtgttgga 240

gctattcctg caatcggcgc ctgcaaatgt ttcccaccct acgtcttcca caagacatct 300

ctccttgagt ggggattggg gaacaagccc taagaacatc tgtgttttaa gtgcagaata 360

tttgtgtttt aatcagtaaa cgctgtccaa aaaaaaaaaa ttgcccaaga tct 413

<210> 35359
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H10

<400> 35359

gaccactcgt ccgctgaggt tccagcgttc gcgctctctt ctcctctccg tcggcgacga 60

ctacgccggg tgttctgtag acccaggtcg ttgccgccta cgccaggtgc ccaaatcttc 120

ttagggccct tcgccggcga cgagcacaca agcttggttg acccccaaca aattgcaaaa 180

tgtcagccaa tgtcggtgaa tcaaccagcg gtggcagcag caatgatgca gctgggggga 240

gctttgaatg taacatatgc tttgagctgc ctcaagagcc aattgtgact ctttg 295

<210> 35360
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H11

<400> 35360

cgaaccgacc cactcgtccg atctgctcct ccaaagatct gataagctgt tatgtttgtt 60

gcaattcata acattgttca gacagggtac cacggcagaa cacgtacaag cccagacgag 120

cactgtacat agctacaata agtcttctga catcaccaag atgacccaca aaacgggtac 180

tgacaagata tagtacaatg aaatcatttc gctggccctg gaacttgtcc acaatggtaa 240

ccttggtagg gggctcaata ttccatggtt tgcatcttct gatgatcaca tcacgaataa 300

taagcttctg acca 314

<210> 35361
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H12

<400> 35361

aataccgagc acgcgtacga tcgacaccgc tcctacaact gtaggtcttt tgctttgatc 60

gtcaggtttg gcttgatggc taagtgggac atgaagttta tgctgcggat cctactgcca 120

gcagtggtgc tgttgtaact gcagaatgca ctgtcacaga actttcactt ggagatcttg 180

aagggcttct gctgcaaata gccaatgacc agcacatggt cgaatcccaa tcagatcttt 240

ctgcaccaac tccacatcat aacttgaatc aagcttacat tggggattta catgaatctc 300

atggtgctcg ggttggtaat ccttcttgta tagttcagga aagcacattt tgtgaaccac 360

ggacttgacc aaatgatcaa tttccacagg ctaatgtaac c 401

<210> 35362
<211> 248
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-004-Q1-K1-H2

<400> 35362

acccactcgt ccgggagagg atccgttgat cagggcaggg ctttaggcct tcagcagncn 60

ngctatccta ccggcaccgc gtcaccgaca gttcttgcac agctacagct ctgtagaggg 120

atagtagagg attcttatca tgcgttttgt attctgacct ttgcttgttg tgagacccag 180

tccacatgaa gatgtttttt ttatttgtta ttgatacttt cacgacgttg aagcatacaa 240

ttatatgc 248

<210> 35363
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H3

<400> 35363

tccggatggg cgtctgcgta ctcgcctacc tcctttgctc attacctttc ccccttctcc 60

caatggccgc cggcgatcca tcccgtaacg cgacaccatg agggagtgca tttcgatcca 120

cattggccat gccggtatcc aggtcggaaa cgcgtgctgg gagctgtact gccttgagca 180

tggcattcag gctgacggtc agatgcccgg tgacaagacc attgggggag gtgatgatgc 240

tttcaacacc ttcttcagtg agactggtgc tgggaagcac gtgccccgtg ctgtttttgt 300

tgaccttgaa cccactgtca tcgatgaggt gagaactggc acctaccgcc agctcttcca 360

ccctgagcag ctcatcattg ggaaggagga tgcagtcaac aactttgccc gtggtcacta 420

caccattggc aaggagattg ttgacctgtg 450

<210> 35364
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H4

<400> 35364

ggacgcaccc acacggccgc atggtcacca agccgacggc tacctggttc acggggaacg 60

attccgtcgg gctcaacgcc actggccacc agtacttgct ctgcggctac ccgggccact 120

gcgctgccgg ccagaaggtg gacatccgcg tcgcctcctc tgctgcccct tccgccgcac 180

cgtcgccgac cccctacggc tccaagccct gcggcggcgc cacggtcgcg ccgtcgccgc 240

accctaacgc cgcgccgaag gccctctccg ccagctccgt agccgcggct gtcgccacgt 300

ccctgctctc cctggccgcg gccgtgctgg catgatcact tgatcaggat cgcgtagtgc 360

tggccagggg acagcgcctt tgcgaattgt gagagctcgg act 403

<210> 35365
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-004-Q1-K1-H5

<400> 35365

cccacgcgtc cgcccacgcg ttcgcccacg tgtccgcaac tctttcccaa atgcaccggc 60

ggctcggctc gcccatcttc gcgccaagca ccgaatctcc gatggcccgc acgaagcaga 120

cggcgcgcaa gtcgacgggc ggcaaggcgc cccgcaagca gctggccacc aaggcggcgc 180

gcaagtcggc gccggcaacc ggtggcgtga agaagcctca ccgcttccgc cccggcaccg 240

tcgcgctccg ggagattcgc aagtaccaga agagcacgga gctgctcatc cgcaagctgc 300

ccttccagcg cctcgtccgt gagatcgcgc aggatttcaa gaccgacctn cgcttccagt 360

cctccgctgt cgccgcgctg caggaggccg ccgaggccta cctcgtgggg ctcttcgagg 420

acaccaacct ttgggccatc cacgccaagc gcg 453

<210> 35366
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H6

<400> 35366

cacgcgtccg ctgcgcacgc gcctcaaccc ttcctctttg cggcggcgcc ggcaaggcgg 60

gagccaagcg gagctggagc tgcgatgaag aagatcttcg gcgccaagga aggacaaggg 120

gcccggcccc cttcattcaa gacgcccccg aacgcattaa ccaaccgggt taaaccgggg 180

ccagaagatc caaaacttga ccaggagctc tccccgtgca cagggcacat ccccaagacc 240

cgtcccgggc cgttccaaga agccatctag gcacccgcca tacgactcct caagcacaag 300

cgcatgtacc acgagcaacg caacatgttg tacaaccaaa cctacaatct cgaccaaatt 360

ggctttgctg ccgatggcct caaggatgct caacagacta tgaatgccat gaaggcagca 420

aacaaggagc tcatgggaat gatgaaa 447

<210> 35367
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H8

<400> 35367

cgggcgcgtg ggcggacgcg tgtgcgcctt ctgccttctg cgcctccatt tcggcctcgg 60

tcccttgcaa gttcagtctc gcctccaacc atgggtaaag agaagtccca catcaacatt 120

ggggttattg gccatgtcga ctctggcaag tcgaccacca caggacacct tatctacaag 180

cttggaagca ttgacaagcg tgtgatcgag aggtttgaga aggaagctgc tgaaatgaac 240

aagcggtcct tcaagtacgc ctgggtgctc gacaagctca aggctgagcg tgagagaggt 300

atcaccattg atattgctct gtggaagttt gagaccacca agtactactg cacggtcatt 360

gatgcccctg gacaccgtga cttcatcaag aacatgatca ctg 403

<210> 35368
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G2

<400> 35368

acccacgcgg gcgtccgatt caccctctta catttattca ctgtacgtct acatacaact 60

cctcgctatg caaactaatg gagtattgtt tgagtccagc tgttattacg cttcaggacc 120

gcctgaagga aaatgaactt cggctatcta tgttaaaaga ggagtgtaag caactggagg 180

ctgataccca aggcatgaga aatggttctc ctcgtcgcct catgaatcac ggagctggtg 240

gcagcggttc acctatggct cagagcaggc atcctttctc cagccaaggg agccctagaa 300

gcccgagcgg cggcagccgg aggagggctt gatgatgatc ttgctccgcc tgatgcgttg 360

atgaactgtc cgttgtggct taaccagatg ctttctgaaa acccagatat ttgacggacg 420

aagtgcccag acaacagaca ctgtacctgt acataccc 458

<210> 35369
<211> 351
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-004-Q1-K1-H9

<400> 35369

gacccacgcg ttcgccgcgc gtgcgcccac tcgtccgccc acgtttcctc ccacgcgncc 60

gcccacgcgt ccggccacgc gtccgtccac gcgtgcgccc acgcgtccgg tacttccaaa 120

gttccacagt tccactgcac agatcgtcgg cggcggcgca ggcaaggcca caatgtcttc 180

ggcgcccagc agcggcaagc gcgggagggt tcccgacccg gaggaagacg tctacgtcga 240

caacctccac tcccacaagc gctaccttac cgagataatg gcatccagca tgaatggctt 300

gtccgttgga gattcagttc ctgacaatat catggggtcc ccaatgagag t 351

<210> 35370
<211> 224

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-005-Q1-K1-A1

<400> 35370

cgtgcgcgga ctcgtggagg acgttggggc tgcaaggctt gcaggnaggt gcaagacana 60

ctttgacaag cttgggtgta gccatattct cggagagtac agaatggagt taccagagta 120

caacacgatt gaaccttatg cgaaaatgaa cgagaactgt ccgtccttgc cctcatctta 180

caaacgaccc gaacgctgct gactacgaga ttgtctacta tgta 224

<210> 35371
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E7

<400> 35371

cggacgcgtg ggcggacgcg tgtgtgcctt atcagatcca tgaaattaaa tacgtcctcg 60

gcacacttaa aatgacgtat ggcctatcat actaacccat cataaacatc tccttgacta 120

atctttatct acacctgcac aactacaagt tcacatcgag ataaacctgc ctgatgaaaa 180

tgctacgctt caaattcttc atattcatac atataatact aatgataatt ctctactatc 240

accagatatt aatctacttg at 262

<210> 35372
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-004-Q1-K1-E8

<400> 35372

gcatgaggaa atcaacgact gattctccat tactgtcggt cacttcggat ggcggcaccg 60

ccngatggga atgtccgctt aggcgagggg tgggacgagg acgacgtgct ggagccgcag 120

ccgctggagg tcatagcgcc ggatgtcaag tccaagaagc gcaatccggc gcccggagtt 180

cgggttgttg gtcgccggat ctacgatcca gagaatggca agacctgcca ccaatgccgt 240

cagaagacaa cagacttcgc agcggcgtgc aagcaagtca agaagaaggg tccgtgccca 300

gtcaagtatt gcctcaagtg cctccttaac aggtatggcg agagtgccga ggaagcggcc 360

ggcaaggaag actggatctg tcctaagtgc atgggcatct gcaactgcag cttctgtaga 420

aaggagaaag gccagatgcc aactgggata atggcccaca 460

<210> 35373
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E9

<400> 35373

ccgtcccgac ggcacgcgtc cgcccacgcg tccgcccact cgtcctttta ctcttgggct 60

tcaacaggtt gcattaagcc gggatgcatc tcctgatgct gcttttcgga ctgatgtcgc 120

taagcgtgca tttgttggtt ggatgagaga tctacgtggc atagctatag caaccaacag 180

ccgcaagaca tatggcctcc tattcgactg gatgtatcca tctcgcatgc cacttctgct 240

gatagccatc taactttgca ctgatgaacc agatgtcacc acacccttgc tcaagttcac 300

gtttgaattt atttttgaac aaaactcaaa aactgacatc agatttatca tcaccaaa 358

<210> 35374
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F1

<400> 35374

tcgcagacgc gtgggtagac acatggactg acttgtgatc gaacccgctg ggattggtaa 60

acgagatcgg gagtttattg cagtggaaca aactgtgatg gcacaagatg tccaagacca 120

aagtgatcag gagcgcacac attgacacaa aggtgcgagc agggagaacc atcccacgga 180

ggatctacat gttcacagat ccaggatccc cgggcaggaa acatgttgcg agagcatcac 240

atgagccgaa agcagagatc acaacatctg aaggaaaaca tatccatgaa attcctgttt 300

ccaggaatgc aagcc 315

<210> 35375
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F10

<400> 35375

gacccactcg tccggatgat gatacttgct ttcctgactt catttgcttt tgctcggcgc 60

attatgaaag caagatcggt cctaaaggtt gctgcaaagg tcgttggcga agtgcaggca 120

cttattattt ttccagtcgt gccatacttg atcctcgcta tcttttacac tttctggttt 180

tcagcagcac ttcatctttt cagcgcctgt caagttatac aaaatgattg caatacagat 240

tgctgttcct acgatctgaa acttggcaaa gtaaattgtg acagatgttg tggctacact 300

atccattaca ccccacatat tggcatcgcc attcttttcc atctttttgg ctgttactgg 360

gcaacacaag ttttcatcgg gtgttcttcg actata 396

<210> 35376
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F11

<400> 35376

cccacgcgtc cggagcaata tatatttggt gtgaggtaca cagggattaa gtcaaggggc 60

gagaccgttc gctaggcttt gattgcttga gcaaacacgt tttgctatcg ctcaagcttg 120

ttatatgctc atgtggtggt tcgggtattg acttaagtct ctggctaaag aaagtgaaac 180

accacctatt acggcttctc ctatatataa aatatatatg tagcagattg ttttcaacca 240

tcttgtgaag agttctgatc ttttgtttct tcgatatagc gaaatatata gatgagaatg 300

tctctgtgtt tgtaacgttt gtgtagtgtt atttccgttg agttgatata tatgacatgt 360

acgctttggt catttgggaa aaatatggtc tagtgtagct cactttaaa 409

<210> 35377
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F12

<400> 35377

cttactttgt gaacaactgt atcttcttct acgagccgaa gtgcatcaag actggtttct 60

acgacaatgg ctcgcactca ccgttaaggt gttcctcgtg ccacttctta tgcaactcca 120

ccattgatcc ttaccttgtc tcacaccatc tcatcctttc ttatgcttct tttgtcaagc 180

tatacctata caagtctcat ctttaccaga acgggaagat tgtaatacta ctggatttct 240

tgtggtacta acctt 255

<210> 35378
<211> 54
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F2

<400> 35378

cccacgcgtg cgcccacgcg tgcgcccact tgtcctttat ggcgatgtcg cgct 54

<210> 35379
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-004-Q1-K1-F3

<400> 35379

actgagcaca gcacaggcag ttcgagagat tgtagagata gagagagaga taaatatgtc 60

ggggttcggg caccaccacc acaaccagcc ggctcccccg gcgtcgggcc ccaaccaggt 120

gttcaagatc ttctgccgcg ccaacgagaa ctactgcctg gccgtccgcg acggcgccgt 180

cgtgctgggc cccgtcaacc ccaaggacga ccaccagcac tggtacaagg acatgcgctt 240

taacacccgg gtcaaggacg aagaaggcat gccggcgttc gcgctcgtca acaaggccac 300

ggggctcgcc atcaagcact ccctcggcca gtcccacccg gtcaagctcg cgcctttcag 360

cccggaccag gaggacgcgt cggtgctgtg gacggagagc aaggacgtgg gcaagggctt 420

nccgtgcatt cggatggtca acaacac 447

<210> 35380

<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F4

<400> 35380

cttggccctg ctcctttgca ggatatggct aggcaaattg ctacactaca gccaatggcg 60

ctactggcta taatagggat tacctgttct caatggagaa ggcattagcc agcattagtc 120

cccaaactcg acgcgcaggt acgagaatta gccaccagcc gacgggatct cgatggcgag 180

ctccgcgtag cagaaggaca agagcagcac cgccaggtcc ccaaaccatt ttcgcgcggg 240

tataaaaggc tatcatgaag ctttctggtc aaagtcccaa aagaatgaga gacctatcaa 300

atcagcaagc ccgaggactg ggaatgtaag ccaacgccaa aaaagttctt cgtctggttc 360

tacggcaccg atgagatgtt tatgcgccat cctgagtatt ccagctttcc tatatggaca 420

gtttgaaccc aaggtttgct gtgtaatcta atatcaacag ttgcactc 468

<210> 35381
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F5

<400> 35381

cccacgcgtc cgcagcctcg ctgtcaagat ccgcaacagc ggacagacac gcgggtgtgc 60

ggtcttgata cacgtgcacg aagggatcta ccaaaagctc gcacaagcac tcatccaggc 120

tgagcacaga ttgaaggtcg agaacggtct ataagagagt acacctcagg gccccctgat 180

taacgaaact gctgcgcaaa aggtggagaa gaccacaaaa gacgcaacct ctaagggagc 240

aaatgtcatg ccaagacgga aaagacac 268

<210> 35382
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-004-Q1-K1-F6

<400> 35382

ggagggcaag gttgaggatg tttatgagtt tgaagaaaag gaaaagaaga aggggaagag 60

caaggaggtt tctcatgagt ggcaattggt taacaagcag aagcctatct ggatgagaaa 120

gcctgaggag attaccaaag aagagtatgc tgctttctac aagagcttga ccaacgactg 180

ggaggagcat ctcgccgtta agcacttctc tgttgagggt cagcttgagt tcaaggctgt 240

cctgtttgtg ccgaagaggg ccccctttga cctcttcgac accaggaaga aactgaacaa 300

catcaagctc tatgtgcgcc gtgtcttcat catggacaac tgtgaagagc tgatcccaga 360

gtggctgagc tttgtcaagg gcattgttga ctctgaggac cttccnctca acatctnccg 420

tgagaccctt cagcagaaca tgatccttaa ggtcatccgg a 461

<210> 35383
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F8

<400> 35383

gtggctggtc aatggtttta tttaccagtt taggctgaca aaaaggaggg tggattctgg 60

gtagcactag atacacgaga gctattttac agttttcata ctgatgatgt gcctgcagaa 120

tcagttatgc acaaatgtgt ggtccatttc attcctcagc aaaaacagat tcccagtcta 180

aagcagcatc cgggatttat tgtccagaag gtctatgatg cagttgagaa gaaactgtgg 240

aacctaacag acaaggacta tgaggataac aagcagcaag agattgatct tctggttaag 300

aaaacaatag accgtattgg gcagcttcct gatctcgaac ctgaagagac acctcttgag 360

aacaattatt tgtcaaataa acgaggcctg cgtaagaaac ctgttaaccc ta 412

<210> 35384
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F9

<400> 35384

gaccgcactc gtccgcccac gcgtccgaac attgagatat tagttttgtt actaagaaag 60

atgcaataaa ggttgtgtcc tgtcttccat gctgcacctg tttcacatta caccagcacg 120

ttttaaacaa tatacaagga ttatgtccca cagtgctcat gaaggacata atggatgaga 180

atattttatt tcaacttctg ctgttatgtc tttctataat cttttaaact agtctcactt 240

gctctatatt cttaaaagct gctagcgatg tgtatcatct ttattggttc ttgacacctc 300

taaactgctt catttgtagt gtgatctggt ggccactttg aaaagcatga ataactaatt 360

agcattgatg accgaaatat ttttctttgg aacctaaacc ttgtcaatta attaa 415

<210> 35385
<211> 128
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G1

<400> 35385

gccgacccac tcgtccgacc aggcgtccgg tcgttcacgt aatcattttt cagtttcctg 60

ccatacgcac ggaccagggt aagggtactg tctatattgc tgcccggact aggtcccaaa 120

acacaagc 128

<210> 35386
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G10

<400> 35386

cgacccacgc gtacgcgggc gcgtgggtac tgatctcact gatcttggat tgctatggca 60

aaggcaggcg cgccgggggg gtcggcggcc cagctggtga ctctcgggct atcactcctc 120

tgcgctgtcg ccggcccggc cgccgcgcag aactgcggct gccagccaaa cgtatgctgc 180

agcaagcttg gctactgctg cacgaccgac gagtactgcg gcgacgggtg ccagtcgggc 240

ccgtgccgct cgggcggcgg cggcagcagt ggcggcggtg gtgcgaacgt ggctagcgtc 300

gtcaccggct ccttcttcaa cggcatcaag agccaggccg ggagcgggtg cgaaggcaag 360

aacctttaca cccggagcgc gttcctgagc gc 392

<210> 35387
<211> 290

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G11

<400> 35387

acccacgcgt acgcccacgc gtgcgcccac gcgtccggag gatttcgttg agatctaaga 60

tagagaatcg ctggggacag tctgttgtct gctgcgtacg gtggtgttga aggggagaag 120

tttaagatct gttccacaga tcacgcgtgc gcgctcgcga atcggaggtt ccacacatag 180

cttcgtcgtt ttgaatttga tgtactaatg gagtctaagg gtggcaagaa gtctagcagt 240

agtcgttcca tgatgtatga agctcccctt ggctacagca ttgaagacgt 290

<210> 35388
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E6

<400> 35388

aaaccatctc cacacaaaga ttgatagtgg ggaggcgctg aataacgcat ggcgtattgg 60

aatgacccat cgcaaagata tgcttgacga aactctattg agacctggac gataggaaga 120

tcacatcgag ataaacctgc ctgatgaaaa aggtcgcgtc caaaaacttc agatacatac 180

acataagatg aaagagaata ctttcctatc tccagatatt aaacttcttg agctagccgc 240

aaggacaaag aactacagag gagcacagat gg 272

<210> 35389
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G12

<400> 35389

tctgcgacta ctacagccag taccacatgt tcgttcaaga gatggtcggg tacctcaagg 60

cggggaagat agcctacgtc gaggacattg ctgatgggct agagaaggcg ccggaggcac 120

tcatcgggct cttcaccggg cgcaacgtcg gcaagcaact ggtcgccatt gcgcgggaat 180

gaatgctggg catccatatc tacgttgaga ataatgtcgt ataaactata aagcatgcgt 240

acgttttcag acgtgttagg aattgatggt ttgcagtgct tgcagtttta tgctgttcga 300

gtgaaatgtt tcaa 314

<210> 35390
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C9

<400> 35390

cccacgcgtc cgcccacgcg tccgttgctt ctcgcatggc ctcctctacc cagggggccg 60

gaaactgcct cccaaattct caaatggggc ctgctgttcc acggcgaggg cgtcggaccg 120

gagcgagctg gcgggtaaaa gcgggggctt ggcttggaga gcggcgggga gaaaggggcg 180

gctgcttggc gtcaccggag ctgggcgagg ccccttcttt ggcggcggcg ggaggcgtat 240

ggacaagggc actagccggg tcgtggggaa cctcgccttc gccgtcgtcg tgacgtacct 300

cgacgtgacc ggccagctcc ggtgggttat tgacgccatc gtctctctct ggc 353

<210> 35391
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D1

<400> 35391

acccactcgt ccgcccacgc gtccgctctc tacaagtcca tatttcccat tcacacacac 60

tacgcacgca cacgggagac atggacgctc agccaaagca tccacacaca gctctcttcc 120

tactacactt catactagct agtctctgag ccctctagac tctagccact tacacacgcg 180

ccaacgccaa taatttccat aacatacaaa gcaacagcaa ttgcgaagac ttcgacgaga 240

gatgcaagat gcatggacta ctgttctcca aacgacacgc agcagccact taagatgcat 300

gctccgccct accctcagaa tgacctgagc attcgattct acacgttcta acacgaccta 360

gaccaattca tca 373

<210> 35392
<211> 343

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D10

<400> 35392

cgacccacgc gtacgcccag gcgtgcgccc acgcgtccgc ccacttgttt tctgacgcgt 60

gggtgagcct tccgggggag ggtgggtggt gctgggtgcc ggggatgagc tgcaacgggt 120

gccgcgtgct tcgcaagggg tgcagcgacg cgtgcgtgct gcggccgtgc ctgcagtgga 180

tcgacggcgc cgaggcgcaa ggccacgcca ccgtcttcgt cgccaagttc ttcggccgcg 240

ccggcctcat gtccttcctc accggcgtcc ccgagccgca gcgcccagcg gtgttccagt 300

cgttgatgta cgaggcggcc gggcggacga tcaaccctgt gag 343

<210> 35393
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D11

<400> 35393

cccacgcgtc cgcccacgcg tccgtccact cgtccgagcc ctcccagggt ctctgtgcgg 60

gggcggcgat gtctctcgcc ccggacccgg cggacggcgg cgccggcacc ggcaccggca 120

ccggcgacga ctggttcctc gactgcggca tcctcgacga cctcccggcc gcggcctgcg 180

gggccttccc gtgggacgcg tccccgtctt cttccaaccc cagtgtggaa gtgggcagct 240

atgtgaatac caatgatgtt ttcaaggagc ccaatgatgt cttcaaggag cctggcagca 300

ataagcgttt gaggtcagga ttcaatgatg tgcatgtgcc aacatctaaa gcttctaggg 360

gaaaaatgat gaggaacaag ctgaatgaca ggtttct 397

<210> 35394
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-004-Q1-K1-D12

<400> 35394

cccgcgcgtg cgcccacgcg tccgcccact cgtctggttc caccggtgca tcaacctggg 60

ggtaggtact ttggggcagc tcgctcaaat actggtgggc ctattggtgg ccaccttgct 120

catcaacaga actcccagca agctatgggg agcattgggt caaattttaa ctacactgga 180

atggagaatc caagtagtca gccttctggt ggagcacana tgtcccaaac tggattaatg 240

acccatgtgc ctgtccaagg actaagtcac attccgtgat ggtttttcta ttggtgggat 300

gtcacaggac ttctttgtag acgattttaa gag 333

<210> 35395
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-004-Q1-K1-D2

<400> 35395

cacagttgtg caggagttct ggctggacaa tgtcggtgga ggtctatgta tgtcaatttc 60

gtcaatggcg ctttcaataa caggcattga tgataggagg tattggaact tcattcccag 120

tgatgaatca agattccgca cggttgcgta cctctcgcaa atctggtggt ttgaagtgag 180

aggggaggtt gaattcttct tcccagaagg cacgtacagc ctattctacc gcattcatct 240

cggccgacca ttcaagcgtc ttggccggcg agtctacagc tcggagcacg tccacggctg 300

ggacatgaag ccggtgcgtt tccagatgtc gacctccgac ggacagcatg ttcagtccaa 360

gtgctacttg agcgatcccg gtatctggat caaccaccat gtcggggact tcgtcgtgaa 420

ggactcgagc aggccagtga acatcangtt cgcgatgatt c 461

<210> 35396
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D3

<400> 35396

attgactttc aaaacaaata tagaggatct catatggtcc atgtatacga cttttacaag 60

cccgatcgtg cgagtgaata tccaatgcca tgaggtagca tgtttgtgat agctttccat 120

caaccaccgt atattcactc gcatgatcgc tcttgttaaa gtcgta 166

<210> 35397
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D4

<400> 35397

gccggacatg cgggcatgtg agcaaggact tcttatctac aggaatcatc accatacccg 60

gctactggga cggatcagaa cagcacttgc aatggctact agcacactca agagagctca 120

tcgctctgga gcgtagcaag ctgtagctgc tgcaccaaat ggcgccgcca taagatactc 180

ctagatgcta ctgcctccag agctcgacga catcgatacg tccggcactc gccatgcgga 240

tatacaacac cgggcagtga tcttacacac gcatggcatc cagctctctt gacgactcac 300

tata 304

<210> 35398
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D6

<400> 35398

gcgcaggaga tcgagcacac cctcctcctt atccgcggcc tcaacctcca cgtggcacag 60

ggaggcacag gtgaactggg cacggtggtg ttcctgcacg gcttcccgga gatatggtac 120

tcgtggcgcc accagatgcg ggccgtggcc gcggcggggt accgcgccat cgcgccggac 180

tgccgcgggt acggcctgtc ggagcagccg ccggagcacg aggaggtctc tcctgacgac 240

ctcatcgccg acgtgctggg catcctcgac gccctcagcg tcccgaaggc gttcttggtg 300

ggcaaggact tcggcgccat gccggcgtac gagttcgcgc tgcagcaccc gggccgcacc 360

ctcggcgtgg tgtgcctggg catccccttc aacccggccc ccatgtcctt cgacgccatc 420

atgcccgaag gattctacat cctgcgctg 449

<210> 35399
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D7

<400> 35399

acactagcta gctaggtcgt cgttcctaat atctgacct tgcagcaggc accacagcag 60

ggggagcata aagctgggcg tgccgcaccg gagcgccggc gcggacgagc gcggcgagag 120

ctccgcgccg gcgatggccg gcgtgcagcg ggaggtgtac tcgaagaagg gcgtgatgcg 180

gcggctgatg cggtggagcc ggccgcggtg ggccgcggcg gagcaggcgg agtgcgcggt 240

gtgcctggac gagttccgcg cgggcgacgt gctggcgcac ctgcgctgcg gccaccgctt 300

ccactgggcc tgcgcgctgc cctggctcga gggcacctca cggtgcccct tctgccgcgc 360

cgtcgtggac gccggcgccg ccgtcgacgg cgcctagaag cggccgaggc tctggtcttg 420

ctggggctgg cccgtgggac ggcgcggggc gccttgtcgc 460

<210> 35400
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D8

<400> 35400

cccacgcgtc cggccatgtc tactccatat atgacaatgc cacagtggag gatgcagcag 60

cagactatga attcatgatc aggcagctgg ttaaggtccg cacaatagga gtctcagaga 120

gaaacgactg tcccaagttc gatctcatcc ttctcaccat gggctccgat gggcatgtgg 180

cctcgctttt cccgaaccac cctgccatgg agctgaaaga cgactgggtc acctacatca 240

ccgactctcc gcagcctcct cctgagagga tcaccttcac tctcccagtg atcaactcag 300

catccaacat agcaatagtg tccactggtg atgacaaagc aaaggctgtt cacatagcag 360

tttctgacat ggccgaaggt cttgatgctc ctacatcact gcctgctaga atggtccagc 420

caacggacgg gaagctggta tggtttctgg acaaggcg 458

<210> 35401
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D9

<400> 35401

cccacgcgtc cgcccactcg tcctgtagat tttcgtgcct tcgtcgtccg tgccggtgcg 60

gggcgtgttg gccgtgccga ccgtccgtcc acccccctctc ctcttcccgg cgccggctac 120

agcgggaggg actccctggg aggaatggcc gtggtgaggg ctccgctcgg cgcggtggct 180

gtggccgctc tcgtcgtcgc catcttcatg ccggccgtcg catcggcgca ggcaccggcg 240

cccgcgccca ccagcgacgg tacgctgcct ctctctcttt ctctctccta ccccttcctt 300

ttt 303

<210> 35402
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E1

<400> 35402

tgttgctccc ccgtgctctc gggggaaggt ttagagttgc gcgcgagaga gatctagggg 60

agaggtgggc aggtggtcct ggaacgaatc tgttgtcggc gttcatcggt catgtggcgc 120

aggtgccggc tgagctgctg gcggctgaca gtcagacgcc ttttcccaaa actaaggcac 180

cagatctggg gcgtcacttc ct 202

<210> 35403
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E10

<400> 35403

gacccactcg tccgcccacg cgtccgataa acttgtaatc attttgtaat aaagaattta 60

tttccgctgc 70

<210> 35404
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E11

<400> 35404

ggactctggg ttgctggatg atactttcat tttattgaaa gaagacatct ctctggcaga 60

gaatgcacct ggtggaatga ttgaatttcg cagatcgctt actttgagtt tctttttcaa 120

atttttcctg tctgttaccc atgaaatgaa aataaaaggg ttgttagcag atggattgca 180

tgcagatcat ctgtcagctg tacagcctta cagtaggcct gttactgttg gaactcaaag 240

ttatgaatta gt 252

<210> 35405
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E2

<400> 35405

tcgcggacgc gtgggctact tctccctacc gttcgagacc ccaagcacca gcgcggcttt 60

tggggctgcg gcgaccatgg ctgtcgggaa gaacaagagg atctccaagg gaaagaaggg 120

tggcaagaaa aagaccgtcg acccttttctc taagaaggat tggtatgaca tcaaggcacc 180

gtcggtgttc agtgtgcgca acatcgggaa gactctcgta tccaggacac agggtaccag 240

gattgcttct gagggtctga agcacagagt ctttgatgtt tgcctagctg atctttaagg 300

tgacgaagat ca 312

<210> 35406
<211> 237
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-004-Q1-K1-C8

<400> 35406

cccttggtta agacagtgat gattcgntgt ttccaatgta caaggtgtgt gagggttgct 60

gctgatgttg ctggagttca agaccttggt atgttaggtc ctggcagtgg tgaagaaatt 120

ggaacatatg ttgagaaact tatgacaagt gagctatctg gaaatgtcat tgatatctgc 180

cctgttggtg ctcttacatc caagccattt gcatttaaag ctcggaactg ggaactt 237

<210> 35407
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E3

<400> 35407

aaggcaggct gtggatatct cacccctgat atagggtgaa ccaggccatc tacctcctca 60

cgactggtgc cagggagagc gctttcagga acatcaaaac ccattgctga gtgccttgca 120

gatgagttga tcaacgctgc caagggctct tccaacagct acgccatcaa gaagaaggac 180

gagattgagc gtgttgccaa ggccaaccgt tgagtggagc ttgtatcctg gtgcacttgc 240

actagaacta cgtttctggc agtcgtattt ttttcttgtg tttttaccca tgtttagact 300

ttgagaccta tatctaaggt tttggttctc agtgaacaat gaaaattact gtgaaatgca 360

gttgttttgg tgcagaaatg cgcactgaga aaaa 394

<210> 35408
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E4

<400> 35408

cccacgcgtc cgcccactcg tccggtagct tcttatctac agtaataatc acaagagcgt 60

gctaggtggt gggagcagag cagcacttgc aattgcaacc agcaagcgca agagaggagg 120

gggctcaaga gtcttgacgc gtctagcctt cgcagaaaag ggttcaagcg agaagagggg 180

gggagagggc acgggttcag agctggagga gatggagagc ccgcgcagcc ccgaggcgga 240

gatcggccac cgggtggagg acctctggga ggtggcggag ccgcagctct cgccgtcgga 300

gaagctcaac tcctgcttcg aggacatccc cgtcgcgtcc ttcccgcgca cgcacccgtc 360

ccaagtcatt gagattcctt cagatgcaag tcttgctgaa actgtagaaa tattatccaa 420

aaacaaaatc ttgagtgcac ccat 444

<210> 35409
<211> 306
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E5

<400> 35409

cggacgcgtg ggcggacgcg tggtcggact ttttgggcgg acgcgtgggc tcgacaccga 60

gggaagcgca acaaagcaac gcaaagccca cgccgctaca gtgctctctt gcctgccgct 120

acgagccaac gactcgaacg catacactcc aatggcagcg acggtgatgg cctccatgag 180

ccccctcgcc ttcggcaccc ccggcgcgcg tcgcgctttc cctgtacggc tgctccaggc 240

ttctacactc gcgccgcgcc ggcgcgcctt ggccgtgagg gcccagagcg acgacgccga 300

gccaaa 306

<210> 35410
<211> 133
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B1

<400> 35410

accgaccacg cgtccgctca cgcgtacgca aacacatgat agccattagg cctttaaagc 60

acactccctt ctatcgagcc atagactcac attctgggat aagattgtca gatcgacgag 120

atgcatacct aac 133

<210> 35411
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-004-Q1-K1-B11

<400> 35411

gttgggtgat cctaatgagc aagctcgcct atgactgaga tgaatggcat gctgggttgg 60

tctaggccta tgcgtattgg gcctgctgca aacaagaaag ctactgttgt tcaggagaaa 120

gtaccaagtg ctcagggagt tcagtctgac aatgatccta acaatacaac catttttgtt 180

ggtggtcttg accccaatgt cactgaagat atgttgaaac aagttttcac cccttatggg 240

gacgtagtcc atgttaagat tcctgttggc aaaagatgtg gttntgttca atatgctaac 300

agatc 305

<210> 35412
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B2

<400> 35412

ctcgggcgtt ctctgctctc gcgttctccc acctctgttc gccgattaat accgcccgcg 60

cgtccgggca ccagatcgac atacattcta ctcccacggt cgctacaatg gggaacccgc 120

cggagctgta ccacaagatc ctcaacatcc ccaaggacac ctcgccgcaa gaacttcgag 180

ccgcgtacaa aggcctcgtc acgaaatggc acccctacaa gcacccgcca tcgtacaggc 240

cggaagccga agcgcgcttt aaggccatca gcgatgccta ccacgcgctc ctagaccagc 300

aagagaacag ggccgtgttc gggccgtgca acggcagccg ggcgggcgag agggctggcg 360

gaggctccgg ttcgcgcgtg gagagga 387

<210> 35413
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B4

<400> 35413

cattgagcgt ctcatcgtct tcgccttcgt ttaatcgtat ttattaggga tcatcagggg 60

tgagagccgg tggctgcacg gtgcagcagg cgctgtcgcc ggaggccgcg gtggtggtga 120

agcaggccgt gagcctggcg cggcgccgcg ggaacgcgca ggtgacgccg ctgcacgtgg 180

ccagcgccat gctgcagcag caggcgccga cggggctgct gcgcgccgcg tgcctgcagt 240

cgcactcgca cccgctgcag tgcaaggccc tggagctctg cttcaacgtc gcgctcaacc 300

gcctgccggc ctcggcctcg ccgctcctcg gcggtcacgg ccacgtctac tacccgccgt 360

cgctctccaa cgcgctcgtc gccgcattca agcgcgcgca ggcgcaccag cgccggggct 420

tcgtcgacac gcagcagcag cagcagccgc ccgtgc 456

<210> 35414
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B6

<400> 35414

cttaaatagt ccataacagc acttcagctt taagtttatt atttatataa gaggatgaaa 60

gtgcaagtct acaacttact agaccagtag agtagtagac tatgaccaag gtccaagaag 120

gcaacaccta tatgagatca tcatccagct tgaattgatc accagcagct ccagattctt 180

cttcatcatc aattgctttt tctgcagcat cttggtcatt ttgagttggc tcttgatgat 240

cattttcgtt gtgactgtca ctgccactgc catctccttg ctgcaagtcc tgagctactg 300

taacttttg gcgcttccta ctcctaacat aggtctcgga gtaggtcctc ccaccacgtg 360

tagctgctgc cctaggcaag tttctgccct gggtagcttg agttgcacct aaaacttcat 420

ctactgcact ccaaagc 437

<210> 35415
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B7

<400> 35415

agcaagatct gtgcttggaa actagtcagt ttatctctcg atggcaaaag atcggaatgg 60

gcgtgcaaag tctgtagaga ataggcatga aaggtcagag ggtgctatga agcctgacgt 120

tcagcaaaag aagagcactg tggcttcaaa tggatctgat attctaatac aatcttcctt 180

cgtacaaggg aaatcttcag tggttgcacg tgcaatggat gagcctccaa aacctgtgtc 240

tgatgagggg gttaaagttt ctacaaaatc tacttcagaa tttgagacaa gggcaacaca 300

aaagcgtgct ggcaatgctg ggaaggtaat gaagcatgat gttgcaaagg aagatgcaaa 360

agctgggaaa cctacaagct ggaatgtaaa tcaacaagtc ttcactgttg atagagaagt 420

gtctcatgca gctgatgct 439

<210> 35416
<211> 428

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B8

<400> 35416

cccacgcgtt cgcgaccgct tcttcggcgt ggagggcagc aagctgctgc agtgcgtgtg 60

ctggtccaac ggccgtgaga ccgagaaccc cagcgtcgac aacaagcagt gccccgggaa 120

gaacttcgtg gtgctggtcg tcaggctcct cctcgtcgag ctcttcctcc gctacgacac 180

attcaccggc gaggtcggca aggagctgct cggcaccagc gtcatcttca ccggtgtcac 240

gaaagctacc tccggtccgg gcagcgagta aaccgtccgg ccggcgcgcg tcgttggata 300

tatgatgagt ggacgtgaca gagtgtccca ttatttctta atttcgtcat tttactcctt 360

ccttctaata agacttctct gtcaccctcg ggcccacctt tacttgtgat tggaggtgtt 420

tgtcgctt 428

<210> 35417
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C10

<400> 35417

ggggcatttg ccacgagcgc ccccccctgct ttgcctattt cgctctcctc cctaggcaac 60

gaaaggccgc gctcccgcag acggtaccag ccgccgcgat ggggtcctcg tcctcgccac 120

cgccaccacc gccgctgcca ctgcccatga ttgggcgggc cgggaacctc accatcttca 180

tcacgccgcc atcccccgct agcacgcccc ggggcgctgg gcgcacgccg ccgctcgagt 240

ccccgcgctc ggatatctcc acacccatcc cgcagagggc agccccgtcg ccctcccttt 300

ctccctctcc gcggaaccac gagagccggg ccgtggcgcc tgcggtggtg ttcacccccg 360

ccccc 365

<210> 35418
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-C11

<400> 35418

gtcggcgtcc agagcgcgag caaccaacgt ctccccgctg tctccgccgg tccgggcccg 60

gccctcccct cccccgaatc gcgtcgtccc gtctcctgct gccgcggaac cctcgccatg 120

gcggaggcgc ccgagaccgc cgtccccacc cagccgcctc ccgcgccggc ggcttcgtcc 180

ccgcctccca agtcggggat cccgccgcgg tacgacctgg acgccaagtg ggacgcgtgc 240

ctcgacctct ccatccgccg cgtcgcctac tcctccctcg gcggcgcctt cgcgggcctn 300

ctnctcttac ggagccctac tactcgctgg gca 333

<210> 35419
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C12

<400> 35419

ccagcatcca atggaagcag aggaaaactg atgaaactgg agcaactgca ggcaaagcta 60

atcgacccga tgcggctgca agacaagcat agcagctggc caagaaacgc aaggtggatg 120

catgaacccc tgagaataca cacaggagca ggaaacc 157

<210> 35420
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C2

<400> 35420

ggaaaaaaaa ctcgcctttt tctctctgct ttttcatgaa cgccatggaa aatctcgagc 60

gctcgctgtg attcctgcga gtacccaagc ccaaccaagc cctagcccgg cagccattct 120

cttcgcgcca catcgcacga cctccccgaa gcagacgtgc ccgctgcccg tccgtccccc 180

gtggccatgg ccgcgacgtg gtcttcgtct tgctgcgccg cgaccgcgtc gagcagcgct 240

ctgcttcgtc atgcccgcgt caagagcgcg ccttgggtag ccggtgccag ccggagtagc 300

tacaggcagc ggcggcggcg gcgggagctg tacatccgcg ccacggtcgc ggcgccgtcg 360

tcggccgtgg tctacgcgga cgccggcgcc gacaacgtgg cctcgctgaa gatcaagctc 420

ctgagcgcgg tgttcgggct gaaccgt 447

<210> 35421
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C3

<400> 35421

cccacgcgtc cgcccactcg tccgcggacg cgtgggctta cgcgtgggct gctccgagcg 60

gcgtagtggg catcgtcgca ggcgtggcgg cggagttcgt gaagctcacc ttccgtgccc 120

tgtatatgcg cctggctggt ccaggcagca gggagatgac tgtgccggga aggccatccg 180

accagctggg caggaaagtc gtcactgaca ggcccgtgta cgacggccgt ggcgcctact 240

cccgtctcgt ggctcgcata caaggagtca cggtccttgt ccgtaacgca tacgccttgt 300

tcaccatggt ggtcgaaacc gactggcttt agggttccac gctc 344

<210> 35422
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C4

<400> 35422

cggacgcgtg ggatcatacg aaaaccctct ttgcgagtag cgctctccgt cccacacacg 60

ggcgccggag acttcggagt gcgcacctgc cttcacgact tgtcgtgctc gtgcgctact 120

cttctcgagc gccgcgcgga gcacggggac attaa 155

<210> 35423
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C5

<400> 35423

cccacgcgtt cgcccacgcg ttcgaccaat ttgccaatgc cacatcggga tttggggaag 60

agaggctcat caagcatggt cactcacgtg atctatacca tggtgtgctc caagacggga 120

ctgccgtggt ggtgaagaag atcactttgc gcgtg 155

<210> 35424
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C6

<400> 35424

cccacgcgtc cgcccacgcg tccgctcctt ttgctcagaa acccaccaac ccgggccagg 60

cgccggctgt ctcggccgtc ggcgccggcg acgtcgccct atcccggtcc ttcaggtgaa 120

ccaagttggc catggccttc aacaagatca aggtcgccaa ccccatcgtc cagatggacc 180

gcgatgagat gaccaaggtg ttctggaaat ctatcaagga caagcttata ttccctttcg 240

tagacctcga catcaaatat tgtgacctcg ggctttcaca ccgtgatgct accgacgaca 300

aagtcacagt ggaagctgct gaagccacac tcaagtacaa tgtggctatc aagtgtgcca 360

ccattacacc agatgaagca agggtaaagg agtttggctt gaaggctatg tggaagagcc 420

caaatggcac aattaggaat attctgaatg gcact 455

<210> 35425
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C7

<400> 35425

cccacgcgtt cgcgcttccc ttttcccgct cggcggagtt cacaatcccc acgggccggg 60

gtagcggata ttgcgagtta cgacggggaa ggagaggaag atccgtcgat ccgcgcagat 120

tcgtttcgat cgtggtttgg tgacttggta agaggggagg ggagaagcgg cgatgtcggg 180

cgtgttcggc agggtgttcg ggaagtccaa ggagcagagc caggccaccg cgctggcctc 240

gctcgacaag ctcaacgaga cacttgaaat gttgggaaag aaggaaaact tgctagtgaa 300

aaaggccaat cttg 314

<210> 35426

<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A9

<400> 35426

gaccgaccca gacgtacgcg cgagctaggg ctctggcgtt tgccccattt cggtgctcac 60

ctggactaga ctgtgcctgc ccagctggga attcactcgt cgagccttac actgctggcc 120

ataacattct cctagcccac gctgaggctg ttgatcttta caacaagcat tacaagcgcg 180

acgacacccg catagggctt gcgtttgacg taatgggtcg tgtgccatac ggaacatcgt 240

ttctggataa acaggccgaa gaaaggtcct gggacatcaa cctaggatgg ttcttagagc 300

cagtggttcg tggtgactac cccttctcca tgagatcatt ggctagggaa cgactaccct 360

tcttcaagga cgagcagaag gagaagctcg ccggttccta taacatgttg gggttaaact 420

actacacctc acggttctcc aaaaacatcg atatctcacc aaactactc 469

<210> 35427
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G9

<400> 35427

gacccacctc gccacgacgt tactcccatc gccgcttttt gggcgcaccc cagcaaacat 60

cggtcgatcc gcaaccggcg accccatcgt gactgggccc cctcatcgag gtctccctct 120

ttcgccgccc gtgaccatgg ccccaagccg tcggaggtgt acggcttcgt tggatccatc 180

accaccgtca ttgccaccgc cgtgtacctc gcctgggcat acacgcccga gcccgtcctc 240

cagtcactcg gcatcaccta ctaccctagc aagtactggg cactggcggt gccatcgttc 300

gtggttgtga ccgtggtgct gtccatgggc atctacatgg gcctcaactt cgctgccact 360

cctcctccga cttccttcag tactatcttc gatgaaaaga gtatggagca cacaaccttt 420

tttcctgcaa c 431

<210> 35428
<211> 220
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-003-Q1-K1-H1

<400> 35428

ccaagcggac gctgtcggtg tgcgccgttt gctcgttcta ggaacgaccg acgagcggtg 60

cggcncgggc agaagccatt tgcacgcgtc ccccttcag ctttgttgcg cccagtccga 120

gggttttgtc tttgtttctg tcgtccgaat ggagcgagtg gtgatggtga agtgtgtcag 180

aaatagatcg gagaaaaatg aaatagaaag cagcaacagc 220

<210> 35429
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H10

<400> 35429

acccactcgt ccgcggactc gtgggcggac tcgtgggcta cttcttttga tcgcctgaag 60

gaaaatgaac ttgggctagc tattgttaca agaggaggct aagcaacttg atgcttatac 120

ccaaatcatg ataaacggtt ctcctcgtcg cctcatgaat catggagctg gtggcaagag 180

ttcacctacg gctcacagca ggcatccttt ctccaaccaa ggtagcccta gaatcccgag 240

cggtggcagc ctgaggaggg cttgttgatg atcctgttcc gcctgatcca ttggcttgtg 300

gcttaaccag atgctccctg aatccccgat atatgatgga tggacgaagt gccccggcaa 360

tagcactgta cctgtacata cccattgccg ttcagcgctg tgctgttgtg gaatcccaac 420

ggtctcactt tgttttgt 438

<210> 35430
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H11

<400> 35430

cttggcccca aaatccgata ttctgagatg tttcaacatg atggagagtt gaagctctca 60

aggcgttacc tagtttgccc accagagata gatagaacat ctgccgagta cttggtgaag 120

aatggcatcc gcactcatgc tcgcattgag acagtttaat tcggccatgt cacatttttc 180

tggaacggta acacgtcg 198

<210> 35431
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H12

<400> 35431

acccactcgt ccgcccaggc gttctacctc ctcttcatta gctgcgtcaa cggctggatc 60

cgctttaagg cctgtttctt catcaccagc cactaccacc tcatgttgcg ctgttcccct 120

cttctcacct tcaacaactg acaaggaagc tacggctcca acaccgttgg ggggctcggc 180

tacttcaagt tccatcgcgc agcaccctgc atcgtatacg tctgagatcg atctcgattc 240

aaaaatcaca ttaaagaacc tcggccggga tgaattgaac aagaagctct tttctttttc 300

gtaataagat atatacatat gaatcaaata atagcttcaa ctctttggtt taattttgtt 360

gctttttcta ttctattttg tttggatggg 390

<210> 35432
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H2

<400> 35432

atatgcgaat gacatccgga tgaaaccagt aataataagg aattgagaac tcaatagatc 60

agggataacg gacttacaaa gcaacgaccg catgacctgt agaatgacac cacccatcta 120

aaagatacag gctaacaaac gcatgcatgc aaagcaatac atgtcatata agaaagccta 180

aattgacaca actgatcgtc tagtaacaac gaagcctcat gtaaaa 226

<210> 35433
<211> 195
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H4

<400> 35433

catcgctggt tcatggagat gaagtggaag aaggtgcacc gcttcgtagt gtacaagatc 60

gacgagcggt cgcgcgccgt gctggtggac aaagcgggcg gacccagcga agggtacaac 120

gagctcgtgg ccacactgcc cggctacgac tgccgctacg ccgtcttcga cttcgacttc 180

ttcactgttg acaac 195

<210> 35434
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H5

<400> 35434

gcgcggacgc gtgggttcag gagttgttag actttacttc gcaagaaagg ctccctgggg 60

tgtggaggga acaggtaaac accgctggct ggttttctcg ttacatgtac atatatttcc 120

gtatagcaac acatcaaacc cattgctaga ttgattcact gtggagaaaa tgcggtacgt 180

accagtttcg gacttggatg aagagtacag gtctagttgc cattgtagag atggatagga 240

tagatgggtc gagtcgttgg taaggtatgt agagagacaa aggaggaggg acgtggctag 300

tgtggttcat gtcatttgca tatatatata gtatatgata tgccttttcg gtggtctgtg 360

gtgctgatac tactatacat atagatcatg ctgacatttg tggtgatgaa tcaaaagatg 420

tatctaaggt cttttc 436

<210> 35435
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-003-Q1-K1-H6

<400> 35435

gcggtcgcgc gccaagtcgt actcgttgcc ttttcacagc cccgcgccgc cgcctgtggc 60

ccgtggccaa ggaggaatcc aagaaggaga agaagaaggc caaggccaag gtggccaatg 120

gagccgccgc cgccgccgcc gccccggtcc ctggcgcgag ggccgcggtg gtcgcctccg 180

tcgccgcctt cctcgagtcc gctgggctct cgcgcacgct cgtcgccctc caatccgagg 240

ccggcctcga ggccggtgcg tgggggtcgt cacaggtgaa cttggaggag ctggttgcca 300

gattcttaga gtcgagcaat tcaactcggg cggctgccat tctgggaagc gatgagcaag 360

aacaggaaaa tgatgatata gcangagaag ttggcaagga aaaaaagaag agcggcacat 420

aaaccggtga g 431

<210> 35436
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H8

<400> 35436

acccactcgt gcgcaagatc actttgcgtg cagcattcta ttttccgaaa tcgagggttt 60

ggttagggag aggtccgctt gtaacagttg acagggacga gatggacgcc agcggacgcg 120

gcgtctaggt cgccgttctc tgcatgctgc tggtcttcgc catcttcccc ctcctcctct 180

ggcgccgccg ctccgatgcc gtcacctccg ataaccaccg cgtcccgctc cagcccctcc 240

agtaggatca cgtgctgcac ggtcgcgcgt cggcgcgacc gatgcttaag atgcctgaag 300

ctgccggaac atgctcctat actgcgtcaa ctactcgcaa tgctg 345

<210> 35437
<211> 58
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-004-Q1-K1-A1

<400> 35437

actagtttta gatcgcattg ccgccctttt tttcnnattt tattagacag aagccaca 58

<210> 35438
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A11

<400> 35438

caaggaacga ttccatttcc ttcctccggt caaaagccct cgtgcccggc accggcaccg 60

gcagtgtcca acttgctcct cgccacgctt ctctcgtgcg gcgcacgagc catacggacg 120

cactgcggct atgtctccgc ggtcggtgac cccggcatgc tgcgcgacag cctccgtgtg 180

gcatgggagg cgtggaactg ctgcaacgaa gacggtcagg aagcccccgg catgggcagc 240

ccacgcagtg ccaattgcta cgatcttctc ggaccgacca ttccatctct aactatcctc 300

tatcaccgta gagagtgaat gggttgccac caagattagg tctctgagga agcgtg 356

<210> 35439
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A2

<400> 35439

ggccgaccac gcgtccgcgg acgctaggca gactcgcggg tagattttga gtgtccgccc 60

agaccgtaac cataggcgta agtgtaaact ttcaaccggc cacggaaacg taaatagcag 120

aattacatag accatagaca cactacta 148

<210> 35440
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A4

<400> 35440

gacccactcg tccgcggcgc gtgggtccct ctcgtcgccg acttctcccg ttcgcaacgc 60

cacgctcccc aacggcgaaa tggcccctaa gcgaggtggc agggcaccgg tgccggccaa 120

gaagaagacc gattaagtga cgaaccctct gttcgagaaa aagccgaaac agttcggcat 180

cggcggcgcg ttgccttcca agaaagacct gcaccgattc gtcaagtggc ccaaagtcgt 240

gcgcattcag cgccagcgtc tcattctcaa gcagcgcctt aaggtgcctc cggcgctcaa 300

ccagttcacc cgcaccctct acaagaacct tgctaccaac ctgttcaaga tgcttcttaa 360

gtaccggccc gaaaacaagg ctgtcaagaa ggagaagctt cttaaaaggg cccaggctta 420

gaatgaagga aaaactgttg aatt 444

<210> 35441
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A5

<400> 35441

tgccgcggcg tcgggctcgt ggcttttgcc gtatacatac ccggcccgtt tcacgatctc 60

tctagtctct ccctggcccc aaggcatcgc ccgaccgccg tctcgtcccc tcctccgacc 120

tctcgaccca tccccaccct acacccactc tgcccctggc tgcgcgcgtt ccagttggtg 180

tgcgtgcgtg cgtgtccatg gggaacacgc cgtcgtgcat accgcttgcg cccgcggggg 240

gcggcgcctc ggcggcggcg accagcgcag ccaccgaggt gatccacgcg gacggcaccg 300

tcacccggct ggcgcgcccg gtgcgcgcgt cggagctcat gctccaccac ccgggccggt 360

tcgtctgcga c 371

<210> 35442
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A6

<400> 35442

cccacgcgtc cgcccactcg tccgcccact tttccggcgg caaaaccctc cctaatcccc 60

gtttctcgcc atccccacca ccccatttcc accgccagat tcggtgccgt taggatcgat 120

ttcttgtgca tcttggagca tctacaaggg gtgggcgact cagcaaaatc tgctggcatc 180

tcctctcttt tcttgcatcg aattttgtaa ttgccgactg aaccgtgcag agaagtcttg 240

acaagcgcat gggcggaggt ggagatgggg aatcgtgcga tctcctccaa gtccttttg 300

agggggcctt ggctggaaga gctgctggtg ttgttgttga aacagcttta tatcctattg 360

atacgataaa gaccaggctt caggctgcac aaggcggaag taaaattcaa tggacagcgc 420

ttctgcaatt tttggtggag tatatgaacc agctaaaag 459

<210> 35443
<211> 444

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G7

<400> 35443

gcgcccacgc gtccgcccac tcgtctttcc actcttccgg gctgactcaa ggctaaggga 60

gcaggtagaa attggtaatg atgacgggct ttacgttagt tgtgtggctt cctcggcaaa 120

cctttgggca ctcatcatgg acgctggaac tggtttctgt tctcaagttt acgagctctc 180

accagttttt ctccacaagg actggataat ggagcagtgg cagaaaagtt actacataac 240

agcaattgct ggatcaacca atgggagttc attggttgtc atgtccaaag gaactcctta 300

cactcagcaa tcatacaagg ttagcgaatc ggtcccttac aagtggatca atataaagtg 360

gaaagaaggg ttccatgtaa catctatggc cactgctgga aaccgcttgt gcgtagttat 420

gtcaaggaac tcatggtttt ctac 444

<210> 35444
<211> 152
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A7

<400> 35444

cccatgttgg gtactatcta tgtactattt ctatatccaa aactatagtt gtgctggctg 60

aattgaactc aaaagggttt gtttgagaaa aaattgtccc aagattggat tgcttgttaa 120

agctcaatat tgttattgaa gtgttattgc tt 152

<210> 35445
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E9

<400> 35445

gtaaatttcc ctaagtaaag actgattaat atctaattag tggtccacat ttcaagaaaa 60

ttaataaaaa aaaaaaaacc ccaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacaa 120

aaaaaaaaaa aaaaaaacaa aacaaaacca aaaacacaaa accaaaacaa caaacaaaaa 180

caataacaac aaaaaaatac aaacacaaaa aaaaaaacca aa 222

<210> 35446
<211> 486
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F10

<400> 35446

attaccggtc cgacgcatgc gctcgtgggg acatatatcc agattatgat tgcatcgctg 60

ttcgggcaca cttgttcttc cgggaggagg atttggaaag tttcaagcag atggtagaca 120

cctacttatc tgatgcctct aggcaatggg cagccacaaa tgaaggcagt tctcttctgg 180

acagtatgac taaagcaatt gatgaggtta tcaaaattaa agagtgtgac atctacagct 240

ataatccaga ctctgacgca tatccagttc ttgagaaagg ggccatatgg tcgttcaact 300

actacttcta caataggaag ctaaagcgag ttgtgagctt tcgatgttac tgcactagca 360

aattatcagg agatgacttc ttaaccggtg ttgcgtctga tggtgaagag gaagatgcct 420

tgattgacat ggacatatga ctgaccgtgt tctgctagct acctgatgtg cgtataatat 480

aaaaca 486

<210> 35447
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F11

<400> 35447

gaagaggcga gtcttctcac cgtcggaccc ttcgtttcat cggcacgtcg cctccgtctc 60

ggggtgtgtc acttactgct ccgacttttc ttaccgcatg gtcgtcgaat cccggtacca 120

gagggtcgcc gagggcagat cccgcctcgc gcgcctcatc ctcgtgcagg cgctgcacct 180

agtggccgga ggcttgcttc tattgctgtc gttgtccaag ggggcggcgg tgaacaagtt 240

cgccgtgctg tccatggccg cgggattcct ggctatagtg gtgggggaat tagggcgaat 300

gcggaccatg gcagtgctgc ttcggcttta cacaagcttg tcatcaattg cggttgcatt 360

ctctgtgacg tgcattatcc ggtcagagtt gttcttgaag gttatgaagc aaaacacaga 420

ggccatcaca agctacgaaa tgcttgatgc ggttcgtgtt gc 462

<210> 35448
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F12

<400> 35448

gacccacgcg ttcgcccgcg cgttcgcgac tagtgagcgc gatttattct gcgctgcgcg 60

ggatcagggc caatgttagt gttcaccggg agaaggtgat cagcggtctg ctgctgggct 120

cggcggtggc gctggggtgg aagtcgtcgg agcagcagcg cgagatccag agcctgttgg 180

ccgagaagag ctctctccga gccaccaacg cctctatgtc cgccgccatg tgggcctggc 240

gggaggagct cttcgccctc gccgccgcgc cctcctcccc catttccgcg tcccggctcc 300

gccacatcta cggcgaggag gagcccgcgc cgctcgcgcc cgcgcccgcg ccgccaggag 360

caaatgatgg gaaggaagag gaaccgatct ccatagcctg aactctttcc gcacttttt 420

ccagtcgagc gtgtgccgtt cgtgtacatc atggccc 457

<210> 35449
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F3

<400> 35449

cccacgcgtc cgccctaaac tcccctcctt tctccttaca ataccgcgag gcgaaagctg 60

agctcgcgta gcctctttcc cacaccttcg cctgtgccta tactcctgca caaataaccc 120

cttcgagtgc ggttgctgct gcttcatctg cggtatttct tccacacact gactcggtat 180

ccattctacg gacagaccga ccaatcgacc catccgtcca ccgagagcca tgaggcacaa 240

gcagatccac agcaagcaga acactagcag ccaccggcga cgatcgcact cctttcatca 300

tcagccttc 309

<210> 35450
<211> 347

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F4

<400> 35450

ctagctcgca tacagactaa taatctcttt ttcacttcac taacaccaac tagcaactct 60

gtctctgtta caataatgcc cgctcgctcc tactcctccc agccgcagct gatacacccg 120

gccgcggtcc tggcagcgac gctgctgctg ctgtcggcgt agcccgacac agcctctacc 180

catgtgacct acagccaggt gacatcatcc atagcgccat gcctagcgaa cacgatgagc 240

aacacgacat cgacctccga agcgagctgc aacggtctgc gctcgctcaa caaccgcgcg 300

tcgtctgctg cgcaccgaca cgccacctgc aactgcctca atagcat 347

<210> 35451
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F5

<400> 35451

aaaaaaaaaa aaaaaaaaaa aatttaaatt ttaaataaaa aaaaaaataa aaa 53

<210> 35452
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F6

<400> 35452

aaggaatctt tcagctcaca ccttcctatc cctccttccc ttctcctcct actgcgacta 60

gtcgccttgt cccctcgctc gctcgctcgt cgtcttcaac ctcacacaat tatttgtgct 120

cccgctcctt ccgtccgtcc ttcctccccc cttcccctct ccctcttcca accgccgctc 180

ctgctgcctt gcctctcagc ccagggacgc caaggtctct gccaggatgg tgtatgccgt 240

gcctctcgcg cattatgagg tgtggtggtg agggatgggc gatggccttt gcagatgaag 300

gagcgacagc gctggctgcc tgaggaag 328

<210> 35453
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F8

<400> 35453

acccactcga gcgatcgact atctcaacat ccaattttca tattctcagc ttccatctaa 60

tacaacatgc aaaagtccaa ttatactttc ccaaccactt acccaaccct aacatgacac 120

aatcctcttc ctcttcgcag actccgtaca gcatcccatc aacttctatc cctacatatc 180

acaacattca tctatcacac atagactctc acacccttaa ccaaacctgc aatgactacc 240

agaacaccac tcatctattg tcgtctcagt acgaattctt ctgagaaacc atctttacca 300

ttatccaacc acc 313

<210> 35454
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F9

<400> 35454

ccgagtccga gtcgtccgtc tcctgcccgt ttccttttcc gggcgcctcc gccccgtttc 60

tgcgcggcat tcttcggcgc cgccgtcctg agccgtcgca cgcgccaccg gggcgcctcc 120

ggcgcgcgct ccctacgccg gctccgcccc gccgccatgg gctccagagt ccttcactta 180

gacgttcctg cacattctga ggcctatctt atgagaaatg taccagggag tgtaagtagc 240

cctcgcacga atggtgaaaa gggtctcttt cgaaatcaga atgcggggtt cactgcactt 300

gcaagtcctg tgaggagaga aatcggaaac agatcgtcta caaggtcctt ctgtgttgaa 360

gacaatgact tggaagatgg taagacctca aaagaaaggg agggttctgc acagtcactc 420

aggctcccaa agattcagaa tcaggctctc ttatctggtc tggc 464

<210> 35455
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G1

<400> 35455

cacagaccct ggtgcagtgc tcatcactta tagccgttgc cgcaaccgct tgctagcgct 60

gggctctgta atcctatctt ccgggaaacg tcgactcgac atagcctccc agacggagac 120

gatcgccttg ccaccagaga ccaaccaact gctatgattc atcatcaaga ccttatactc 180

caacaccgag atctgcctaa gtgagcccac tagcaactcc aggactgcct tgcattcgat 240

cacgaccgcg agtatgacga gcac 264

<210> 35456
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G10

<400> 35456

gacccactcg tccgctcagt cttagtctct tattagctct aggctctttc tagccgcgcc 60

actccttcgt gtagggatcg ttcttctcat cgccaccaat ggccactgcc gaggtccaga 120

ccccgaccgt cgtggcggcc gatgaagcgc ccgtggtgga gaccccgtcg ccggccgtcg 180

tgcccgagga gtctgccccc gtcgaggccg aggccgaggc cgaggctgct gcttctgctg 240

atcccgagga gcttcccgcg gccgagcagc aggcatccgc cgatgcggag gccgctgctc 300

ctgctggagc cgatgatccc gtctcggtcg atccggccgt cgaggcggag gctgctgctc 360

ctgctggtcc cgaggagact cctgcggtcg agcaggatgc agccgccgag gaggatgctg 420

ctgctgctcc tcctgctggt 440

<210> 35457
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G11

<400> 35457

ctctttcggc cagtggaaaa acgatggacc atgttgattt gttgagagaa cagttgaaaa 60

ttttgtcagg ggaggttgcg tttaatacaa gtgctcttaa gcgcctcaca gaggaagctg 120

aaagaagccc aaagaacgag aagattcaga tggaaatgaa gaagaagacc gatgaaatta 180

aggggaagca gcaacagata gcatctttgg agagagagat agctcatgca acattaggaa 240

ctcaaggaaa ggtcgatacg ttagagcatt caccgtctta tcatgaacta cttgagcagc 300

tcaatgagaa atctttagaa cttgaagtga aggctgcaga taatagagtg atacaagatc 360

agctgaatga gaagataact gaatg 385

<210> 35458
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G12

<400> 35458

gacgcacgcg tccgcccgcg cgttcgggtt ctcctgtcgc tcttcgtttc tgtcgtgcgg 60

cacactatcc atagaggggg cgttcttcgc acagaagaga gaaccagccg atcggatcgg 120

ctgctcttcc ggagggatga aggatgatgg agaaggctct taccaagctc ggcagcttca 180

caatcttccg caaggccaag caggagctct ccgccatcgg tgacgacatc tcccgttttt 240

cgagcacggt ggaggagaag gcaaaatggg tgttcgagaa actcataggg cacaagaagt 300

cgctccctga tctactgcgc gagcacaacc tccctccagg tctcttccct cgtaacatca 360

tctgctacga gtacgacgaa tcgacctcga aactggtggt gcacctgtcc aagccctgct 420

aggtgagctt 430

<210> 35459
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-003-Q1-K1-G4

<400> 35459

gcagtctcna gttacaattc ccaatccatt aaactttacc agccttttgc aaactcagag 60

gagnacgtta ttgtacccaa ggcggagaag aagcctgttt ttaagatacc ctctgaggac 120

gagcccgtgg ccccggcgga taaagccccc gctgtgaata agcctaatgc ggataaactg 180

ctcccggcgg gaaaatccga cggcaaggaa tgccgtgttg acaagaacgt gcggaagaat 240

gccaagaaga gcgtggagac gtacaagatc tacatcttca aggtgctgaa gcatgtgcac 300

ccagacatcg gcatctcctc caaagccatg tccatcatga actcct 346

<210> 35460
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G5

<400> 35460

cccacgcgtc cgcgcggtaa atttttcttt taatctctca tgtgttgtct gatagggtca 60

cgaatctttc caaagtccca cataatatct tactctaggc tgcctttaac aatgtcacta 120

acatgtacct tcaggatcca catgtcaatg tcatctactt gctagaaatc atgattctga 180

tcatgaagct catcttgtaa tacaactgaa agtgaagctc gacttataag acaactatac 240

aaagtaagac actccataat tcacaacaga tcaaacgatg tctgttgctt tgattgatga 300

cccttgctgt gctcattgat actcactcgc atacttaatc ctcttcccca tttgtggtga 360

tagccacaac ccaagataca ttctaaactg cagttagaac tcatttgaca tataacgctt 420

acttcaacgg ttaatcac 438

<210> 35461
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E7

<400> 35461

ggcgacttgc atggtacgac tgtgtggttt tctatttatc caatcgtcgg accgtgggaa 60

gatataggag tgtttcagga ccaggatgcg ttgcagtgca aggacattgt tgtggaattt 120

ttgttgctga ttgccaaggg gtgggtcggt cgatgtagcg tctatgcatg gcttgtagtt 180

ctcctgtaat gttgttgtta atttccgctt ggcggcttgt aatcttacgt gtatctggaa 240

cttgaatcct gggtgattaa tccggcaagc agctgcctgt ttgt 284

<210> 35462
<211> 330
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G6

<400> 35462

cccactcgtc cgaaaaaaaa atttaacttt ttaaatctaa ataaaaaaaa ctaagaggat 60

gagtaaactt tccaaagtcc caaataatat cttactttaa gaattccatc aacaatctca 120

ctaacaacta ccttcagaat ccacatctca atctcaacta cttgctagaa atcatgattc 180

tgatcaggaa actcatcttg aaatacaact gaaagtgtag ctcatcttat aagacaactt 240

cacaaaataa gacactccat aattcacaac atatcaaacg atgacttttg ctcctattga 300

tgacccttc tgtgctcatt gcatctctct 330

<210> 35463
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D12

<400> 35463

cccacgcgtt cgccaactcc atcgctagcg catatgccaa tacaatctga agtccagggg 60

tgccttctta gaaacgaacg gataactgac acttgcatat aatcatctag gaaacttggt 120

gctgacacta tatacatcag ggatcacgcc tgaaaccaac atcgtacctt catacatggc 180

acctgaattg actctcatat cgctcacatc taccaacaag tgataattat acacattccg 240

agcaatagca cttgatatgc tgtcatgcac aagcccagac atgccagtcc gaaaaactgt 300

cgtcttgctg tgatatcttg tcatctatcc actcctagat tatatgccga atgatattca 360

tcatccattc atgacaggtg ctcactgcta cgccgatctg ataaccgaaa caagaactct 420

gcctattcct 430

<210> 35464
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D2

<400> 35464

tccacgcgtc cgcccactct acctaggact ccaactttac ctaccatata tacatacatg 60

agcccgggtg caccttgatc ggaccaccaa ccttacagct caattccaac agtagcccca 120

cgttcctcat catattcaca taccaagcct accaagtgct cgacatctat tactagaaca 180

acttcttcca catggtcaga ctcacaacct tccactcagc atcggctgcc aaccgccaac 240

cgtcaacctc tcactcttat atcccaatac attcgtatta agcacagcca a 291

<210> 35465
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D3

<400> 35465

cacgctcctc agaacggtca ggtcggaatt ttcctgtact tcaactggta cgaggctctg 60

agaaactgtc ctcatgacca agcagcaggc catagagcct gagacttcca cattggctgg 120

tttgctgatc cattgataaa cggacactat ccacagatca tgcaagatct cgtgaaagaa 180

acgctgtcca cgttcactcc tgagcacgct aaactggtga agggctcggc agactacatc 240

ggtatcaacg agtacacatc cagctacatg aaggggcaga agctggtcca gctggcgccc 300

agtagctact ctgccgattg gcatgttcaa tatgt 335

<210> 35466
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D4

<400> 35466

tccggccgac gcacgcgtcc ggagggatat gagacgctgc tagattcaac tgtacattac 60

atgaagattt gaaggaagct cgatctggtt aaaaggtgaa gtgagagctc gccacgaaga 120

ttagtcgaga acgtatccgt cacgagattg acctcatgat gtcagacata caccctgtta 180

aagcaatgtg tgacatccgc gatttggggc tattttatgt tgcatgttct tttcctgaaa 240

aatgcaaccc ttctgtattt gacaagcgtg attggcagag tctttcacat attgaagcag 300

cttgagatct tgcatattct attggcagct tgttgctcag cagtggttct gacttcaagt 360

cgcacgatga gcgaacaaag ctaggcttgt ctagtgcatt attcaacccc ctccgaagca 420

tgttctacct ggacaaaata tctaagaaag cttctgattc tagctatatt atcaaa 476

<210> 35467
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D5

<400> 35467

cagggaaggt cccatatgtc gtgtatctct ttcctgatga ggataagcag catatggtcc 60

tggccagatt gagtgatgaa aagattctgc aatgcgatat gaagctaatg cagattacac 120

aacagcatga tcaccattta acgcctgcta acaccatcac tcatgtggat aacaacatgc 180

aacttgtgac ctccagagat gacacgtcta tacctgtgtg gaagccctgc atcccagtac 240

tgatacacta tatcagtgag cctcacatgc actcaacgcc atcaattgca ctacatacta 300

actcaaagtg actggctgca cacagcttgg acaaatagat actgatatac a 351

<210> 35468
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D6

<400> 35468

ccacccaggc cctgaaaaac aataactacc ttacacttgc tgtaccacat catgatgccc 60

ataccctact agttcactcc attaatcctt tttataacaa ctacaaccct aatacactta 120

aagatgatcc cgtcgtcctc aaagccctct actatatata tatcctgaac gaagaaacca 180

ttgtgtactg ctacaatt 198

<210> 35469
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-003-Q1-K1-D7

<400> 35469

gcgctcgggc cctcgtaccc tccttttctt ccttgcgcgc ggtcctccga tcgaactggc 60

ngaggcgagc ttaggagagc agggccctcc tgagggccct cccgcgcggc gaccccgtgg 120

cgttcctgct aggctgctgc tcgttcgggt cggcggcgcg gaagcggccc aaggcctcgc 180

ccttgccctc cccaccgcgc ctgtccgccg ctgcagcggc agcggacgac ggggccaaga 240

tgaagggcct tttcaagacc aagccgcgga cgcccgtcga catcgtgcgg cagacgcgtg 300

agtgcctcgt tcacctcgac ctccactcgg gctcccggag cggcgacgcc aagcgcgacg 360

agaagatgac tgagctaagc aaaaatatca gggatatgaa gtctatcctt tacggcaatg 420

gtgaatcaga gcctgtaact gaagcatg 448

<210> 35470
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D8

<400> 35470

acggccgacc cactcgtgcg catggtctat gggacgatga ctttgacgat tacgaccact 60

catgccgacg ttctagctga gctacaataa caagtcgacg gaggtgttcc agtccgtgcc 120

gtacgtggtg gccctcttca tcgtcatgct gtggatctac tacgcgctgc tcaagtccaa 180

ccagctcctg ctcatcacca ttaactccgc cagctgcctc atcgacactc tatacatcgc 240

catgtacctg ctctacacgc ccaagaaggc aaagatgttc acggtcaaga tcctcctcct 300

ccttaacgta gacctttttct ggctcatcct ccttctcacg ctgttgctct ccgtcagac 359

<210> 35471
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D9

<400> 35471

acatatcaaa taatcttccg cccgatttat aaaaaaattc agacctcccc actaatatca 60

ctctataacc tatcctccac aatataaacc tcattatatc acacaaacac ccatatcaat 120

caatctctca catcctctat tttctactat tatatatcac attttccttt ccttaaaaat 180

ccaacccttc tctacatcac aaccatcaat cacactacca ctcacatatt taatcatcat 240

catatctctc atactctatt tacatcctct tactcaacac atcttctaac tccaattttt 300

accattaact accaattcta tacttttaca taaacataat tcaacccccct cccaaacata 360

ttcta 365

<210> 35472
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E1

<400> 35472

cccacgcgtc cgctatcaca caaccgtact ttccgtttac atactaagga ccaaactcac 60

cgttatggtc aaccttactc gagacatcct tattaacaat aatttcaact acatcttcaa 120

tgcccacatg attcacacta acatgcttat gaacaagccc ttactacact tgatcatcac 180

aattctcata ttcatcaact tacatgcata cataagctat attgaca 227

<210> 35473
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E10

<400> 35473

gaccggcatg actatcaccc tcgacgtggt ctcgtctgac accattgaca accttaaggc 60

cgagatccat gacaaggagg gcattccccc agaccagcat cggctcatct tcgctgtcaa 120

acagcttgag gacgggcgca cgcttgctga ctacaacatt cagaaggaga gcaccctcca 180

ccttgtgctc cgcctcacgg gaggcatgca catctttgtg aaaaccctga ccggcaagac 240

tatcaccctc taggtggagt cctctgacac cattgacaac gtcaaggcca agatccagga 300

caaggagggc atccctccag accagcagcg gctcatctct gctgggaagc agcttgagga 360

cggtcgcacg cttgccgact acaacatcca gaacgagagc accctccact tggtgctgcg 420

cctcagggga ggcatgcaga tcttcgtgaa gaccctgacc 460

<210> 35474
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E11

<400> 35474

gaccacgcgt ccgctccgcg cgcctcccct ccccgccccg ccgtcgtttc catcggagct 60

ccctaccgac tgccgggagc cattgcatcc gcatcagcga cgcgccgcgg actctccgct 120

ctcctcctct ccccttcctc ccgtgcgctc cgccgccgcc tgggcccccc cgccgcggcg 180

gcctcctcac cgcacgtcgc cccgtggccc cttctcgctc cgcgcggtgc cagaaccgcg 240

tcgtccggcg ggtcctggca ctccccgctg aacgacccgt ccccgaactg gagcaaccgg 300

ccgcccaagg agacgatcct tctcgacggc tgtgactacg agcactggct catcgtcatg 360

gagttcccca ccgaccccaa gccttcagag gaggaaatgg tcgcggacta cgtcaagacc 420

ctcgcggccg tcctcgaagt gaagaggaag caaagaagaa aatctactca gtgtg 475

<210> 35475
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E2

<400> 35475

gcgtcagccc acgcgtccgc ccacacgtac accacctctc atttcctctg ctcaggatcc 60

actataccgt taggttccac ctatcgaagg tttgaaccct gctcaagaag atcatctgcc 120

ccatctacaa tcagctattg ctgacgcact cacgtctatc ccagaaccaa tacctgatgc 180

ccttgcaaaa ctttctcatg aaatacttga tgcaacacca ccaccattag ctgaactgat 240

gaaacctctt gcacaactga tgccaccaaa caataatcgc aatgctccat ctgatgtgca 300

tgctgacggg tcatctagct ctcccacttc acaaa 335

<210> 35476
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E3

<400> 35476

aaagcgaaac cagagccatt gcctacacct ttaccttaac ctaatcccga acctaagcca 60

ggtcctaggc ccgatctcta aaataaaacc aaatccaaaa cctgaaccaa aaccagatcc 120

taaaccagat cataaacctg agccaaagcc agagcctaaa cccataccta aaccagagcc 180

aaagccagat ccacaaccaa taccagagcc taagccagag cctaaacccg aaccgaaacc 240

tgatccaaag ccagagcccc aacctaagcc atagcctaag cctgagccat aaccataacc 300

aaagccagta ccacaaccaa agcctgaacc taaaccagaa ccaaaacc 348

<210> 35477
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E5

<400> 35477

gcggacgcac atctatctgt caagcgtcgc cgttgcctcg atcagagtct gaggcgagca 60

cccgcatggc ttctgctggc ggcggcgcat gagggaaggt atccttcaag atcatcctca 120

ccttcgaccc caagctccct ttcaaagtgt tcagcgtgcc cgaggcggcg ccctttaccg 180

cggtgctcaa gtacgccgcg gaggagttca aggtcccgcc ccagaccagc gccatcatca 240

ccaacgatgg aattggcatc aacccccagc aaagtgcatg caacgtgttt ctgaaacatg 300

gttcggaact gcgtctcatc cctcgcgata gggctggagc tgtagtcatg tcttccggtt 360

agaggatata tacagtccaa tgcataatga gcaaaacttg agagaaataa agctttgatg 420

ctggccttgc ttggc 435

<210> 35478
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D11

<400> 35478

gggtcgaccg actcgtccgc tgagggccca gatcctgtct gtagcatttt tggtagtaga 60

tggattgtag gtaccaaaac ggatgcgatt tctgcataag gagacagcga agtggcgatt 120

ccacatcact atggagcata atgtttgctc ggacagtaga actcaggaat agaggcaccg 180

tttttggagt ggggtggtat atgtgttgta tacagagatg agaggcgtgg agcattagtt 240

tttgtgttgt cattgtcgct gtgcatcctt attgttttac cccttgtcca aaaagggatg 300

cattattatg ttgagaggaa ggttatagag gtttcgcaat aaaatgcacc tagccaattg 360

atagtatgaa tcagatatat aatctaattt atgactgcct attcgccttg taccc 415

<210> 35479
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E6

<400> 35479

gacccacgcg tgcgacgcag ccaaacccaa acccttttctg ctttccgacg ggcgacggcg 60

atggccggtg cgagagagaa tacggctgag gacatccgcc gcgagctcca ggagctccag 120

cgccagcacc gcgagatcac cgagcgcctg cgcgaccccc gtggccttcg ccgcggcgcc 180

cccggccctg gtcctggacc tgggccgccc cgcccgctcc gtggcttcgt gagaccccat 240

gtgggtgcgg aagtggcgga tcaggctccg cagaagcgtc ggctgctatc agccgtagtt 300

aaggttgatg gcgctgaaaa taatgaagaa ggcacaaagg atgccaatgg ggaggggcaa 360

gaggcgggtt caggtgccac tgaaggcagt gacaggagga ctttcaacac tggcgggttc 420

agaaaggacg ggagcctgtg gatgcagagt gaggtggact at 462

<210> 35480
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B7

<400> 35480

gggccgaccc actcgtgcgc ccgcgcttac tgaccttgca tttatgcatt ttaaaacgga 60

atcatgggct acgagaacga ggtatctatt ttacagggac taaaccattg acagcaggtc 120

aagcatcttc tactccaagg ccactattgc cctcaacgac cacttcatca aactcttctc 180

gtgttacaac aactaatgag tctacagcaa cctcgtcgac tacctgatcc gtcacatgtt 240

caatacccac tatgctacta tagagataga tttctacctc actatcgagg gtcgtcacca 300

atgtcctttg aactctgacc atctttgctg cttgtctat 339

<210> 35481
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B9

<400> 35481

taccgaccca acccacccat ccactcagtc ataaaatata ctcctccgtt gactttaaaa 60

tcaactaaca ggtcacaaat agtttagtaa caaatatttg agaacagaga caattaacca 120

atattcatag atcattgatc atattatcca aaacgttttg atactacaag acagattata 180

tgcacaagcc tattcacaag atatgactcc ctcagaacta ccctacccaa acaccaaccc 240

ctgaaatgaa ccaaggaata tttatttaaa aacataaaat ctctgactac aacaaatcac 300

agctcacaaa ccaacaatgc ttcctgctga ct 332

<210> 35482
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C1

<400> 35482

ctctcgccta cgtacgccaa gtattggatt ttgactatcg gacccaacag gtggcaatgt 60

gcggccggtt actaaccttg cagccatcgg tgctgtctgc tgctgcacta tgtgcaatgt 120

cctgtgttac tgtcatgacc gtgtcaagta cctaggatca ttttgctcac agacgcactc 180

gaacttgacc tgaatgttcc ctggagacta cagatgggac accggcagtc tgtccacaaa 240

cccataggcg ttcgcgcaga acaagacgac agaggtgatc caatgtcggt agtcgatgct 300

ttgttcactc ggctacata 319

<210> 35483
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C11

<400> 35483

cccaggcgtg cgcccactcg ttcgcccact cttttgtcgc gaactgaagc gactagtcta 60

aggcggggtt tgctgcggcg atggggagcg acctgtagac ggagaagaag aagaccccgg 120

tggcgctgat gcccatcgcg aagcccctcg ctggaaagaa gctctgcaag cggaccctca 180

agctcgtgcg acgagcctct gaggccaagt gcctcaagcg ctgagtcaaa gaggtagtca 240

agagcattcg ccgcgggaac aaagggttgt gtgtgattgc tggaaatatt tctcctattg 300

atgtgattac acacgttcca atactatgtg aggaatctaa tgttccttac atatatgttc 360

catcaaaaga ggatcttgcg accgcatgaa ccactaatag gccaacttgt tgcgtcctgg 420

ttctgaccaa accaaacaag gggg 444

<210> 35484
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C12

<400> 35484

atcaggctct cttattacag tctaaatagt tttcatactg gactgcatgt gctaatgggc 60

tgatccattt ttcgtacaga aacatatctc tacttcccgg caaagatcaa acaaacgaca 120

tagaaaggta caacaccaaa ttataccaat tgatcgacca atttaacatg cagacggccc 180

tatattcttg cctaattcta gacgacttca tctaattcac taccaaccag gactacatca 240

gtaacaacct cttgttatcc gtatactctt cttccgtcaa caccgatgtc aatatcaatg 300

acgtcatcaa gctcaagcta cacgacagaa gatccagact aatccgctac gttaagcttg 360

actttgcttg cgccgaaagc agcagcacca acaatgacga ccgctacaac aacaacaacc 420

tacacaacaa cgacaacaa 439

<210> 35485
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C3

<400> 35485

gagcgcgcca tctccaagga gggctctctt tacactttag agagcacgga ctgcttcaac 60

ggtgatgtgc tcctattcca tagccatagc tcctagctct ccttactctt cgatcgttct 120

tacctcttgc catccattca gtcaccgacg ccgaggctga ctatggagga cgcgctcgcg 180

aacgccgagg cccccatgtt ctactgcctc gactcgctat tctcggacac cgacatcgac 240

ccacgccgcg atgtgcgcat gctcatcgtc aactgtagcc tcttcaacac tacgccatct 300

ctcgcgtcca tggtagtgca c 321

<210> 35486
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C4

<400> 35486

ctccgcgcac gccgccgccc ctcgacgatt tcacgttctc gccgtcgtct ctggtctcgc 60

ggtcaagtgc tacctggcgt gcgtcctcgc cgcccgctac gcccgcctcg gcgaacccga 120

tgccgcgcgc ggggtcttca acgccgacgg ctgctgccgc tacgcgacgc cgcccaagcc 180

gctgctgtac aacgccatgc tccgtggcta cctctgcctg ggcctcccgc gcgaggccgt 240

tgcgctcctg cgcgccatgc ttgcgtccgg ctcctgcgcg cccgaccgcc acacgtatca 300

cctggccgcc acggcctgcg cgcgcgcccc ggaccttggg ctaggccgcc gcttcgaggc 360

tggcgccgcg gcctgtgggc tcgcggtgtc cgaccttctg gtggccactg cactcatcgg 420

gatgcatgcc ga 432

<210> 35487
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C6

<400> 35487

gacccacgcg tgcgcggacg cgtgggttct gcctccttct cattctcgac cggtcacccc 60

atctccaccg ccacagccgt cgtcttccgc cgccgccgat ggcccgcctc ttcacgcaaa 120

ccctcaccct agcccgcccc gccgcctccc cctccactac cgccgcatcc gcttccctcc 180

gtggcctcgc caccaaggtc gagatcatcg agatcgatct cgccgaggaa gacgctggct 240

cctcgtccca cggctccccc tcctcgtccc catcggtcga ggcggtcggg atccggcgcc 300

tggaggaagc catccacggc gtcatggtgc gccgcgccgc gcccgactgg ctccccttcg 360

tgccgggagg gtccttctgg gtgccccccac tgcgccgtca gcacggggtc gccgagctcg 420

tgggccggat cgcggctgcc gtgggcaccg aaagggg 457

<210> 35488
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C7

<400> 35488

cccacgcgtc cgcggacgcg tttttctatt tctagatcgc gagcggccgc tcggggtcta 60

ggtcgctatc ggctgccctt tagttttttt tatgtatccc tttcccatcc ccgtgatggc 120

ttgagagctg ttctccatct cctaggaggc gcaatattcc acctccatca cggaagcgtt 180

acagaagaaa gagcagtccg agtgtcatta gctctccagt tactgcatct caaagttccc 240

accttgggtt ggaagagaat aagaatgcta ttgatacgca aaggctacaa gaagaaaata 300

aaaggcattt ccgaagaaag atactgctgt aattccgctt gttatatctg atgatgcaac 360

tggtgatcct ttatctactt ttgatcagtt ttgataattc gtttttggat c 411

<210> 35489
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C8

<400> 35489

ggccgaccca ctcgtgcgct tggtcgagca cgtcgcctaa ttaaattccc cattccaata 60

cacagatctc gcggccgtgg gtggctacga atctcgcggt gcggaggcgc gacagaggcg 120

gtgtcgactc cgacggactc gcagccaccg gtggagacgc cccaccggcg cactcctcca 180

acgttcatag tttaagggct tgatttggat aattagtcat caacagaagt gataaaaaat 240

ggtggttctt gcagcatcaa tcgtttcaaa gtcgggaaaa gcacttgttt caagacagtt 300

tgttgacatg tctcgcataa gaattgaagg attacttgct gcgttcccga aactggttgg 360

aactgggaag cagcacactt atgtcgaaac tgaaaatgtg cgatatgttt atcaacctat 420

tgaaagttta tatcttctac ttatcacaaa caagcagagc aat 463

<210> 35490
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C9

<400> 35490

actcagcact ccctctggcc caaccacgta cctgtgccca cccggctacg cgaccttccc 60

gatctgccat aacctacccc aagctcccaa ccgatccgtc tcctgctacg tcgcgtccct 120

caggcgcccc tcacgaccgc acgcgtccgc ctgtgtctcg accgggtaca cggactcttc 180

accttcacg 189

<210> 35491
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D1

<400> 35491

cccacagcgt ccgcccacgc gtccggggac tttaacgtta cctaccctat atgggaggag 60

gaggccgggc taacaatgtg cagaccaccg accttacagc tcaagtgcga cagtagccga 120

acgtacctga tcagatccga ctaccaagcc taccaag 157

<210> 35492
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-003-Q1-K1-D10

<400> 35492

aagtgtcaaa ccaatctccc ctcgccgtcc tgccggcgtg cgctcggggc ctcttttggt 60

ggagcctttc gccgcggccc gtcctcctgt ccgaaataat ccgcctcgac gtgttcgcct 120

ccccctcccc ctctctcccc tcccctccca tcgcgactcg tctcgtgcgt gactgcgtgc 180

tcgctctcct ttttggtgcg ctcatcttgg tatctgtgcc agcgctcgct tctccccgtc 240

cccgccctcc ttcctttcct tgtctagccg aaggccgaag ccactgtgcg cgcgagcgcg 300

acgcgagagg tagctgctgc tgtgcccggc gcgcgcgtgc gtgcgacgat gtcgtcggcg 360

gtggaggccg tctnctgccc caaggtcgac gtcctcgccg gcccggagcc gttggagccg 420

gccaaggaag cggcgcctgc cgcggagcac tgcgacac 458

<210> 35493
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B6

<400> 35493

gcgcccgacg cgtacgggcc tgctctttat ggctctactc aagggtatca tgggctacgt 60

ggaggaggat ctggtttcca ccgacttctc ctgtgacagc aggtcgagca tcttcgacgc 120

caaggccggg attgccctga acgaccactt catcaagctc gtctcgtggt acgacaacga 180

gtggggctac agcaaccgcg tcgtcgacct gatccgccac atgttcaaga cccagtaggc 240

tagtagagag atagatttct gcctccctat cgtgggtcgt ccccaatggc ctttggtcgc 300

agaccatctt tgctgcttgt ctatgctgag aataaatgtg aacggtgccc ctggacgctg 360

gatccatgct 370

<210> 35494
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-002-Q1-K1-H9

<400> 35494

cccacgcgtc cgcccacgcg tccgggcaga atcagaatga gaacaggaca ttatggaagc 60

taggaacgct gccccctggc ttgatcactt tctactcgac cacaaaacct ctggagaaat 120

cttggcatgt tcttggactt ggatacaatc ctagcatcag catggaggag attagaaatg 180

ctgctgttgt gcatttcaac ggcaacatga agccctggct ggacatcggt atgaaccagt 240

tcaggcacct ttggacaaag tatgtggact atgatgactc atatattcgt caatgcaatt 300

ttgcaccgnc atagaaggtt ttaattatcg acaacgaaga agaatcggta aacgtggcac 360

atacatatgc ccgaaggcac gatttctgta gagataagga gtttctagag tacaactg 418

<210> 35495
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A1

<400> 35495

cccacgcgta cggtggtgct ggcggcggtt ctggctgtca tgtggtggcg tcggtgctcc 60

gggaccggcg gagtctacgg cctgccgccg gggcctacag gttggccggt ggtggggaac 120

ctgttccagg tgatcctgca gcgacggccc ttcatgtacg tggtgcgcga cctgcgagag 180

aagtacggac ccatcttgac catgcggatg gcgcagcgca ccctcatcgt ggtcacctcg 240

gcggagctca tccacgaggc gcttgtgaag catggcccca tgttcgggag ccggccctag 300

gacagcccca cccggctgc 319

<210> 35496
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A10

<400> 35496

cccacgcttc caaggaccac gacgctacct tcgtgtgctt tcgttccagc tttccttggc 60

cggcatcttt acttcctacg gaagccgtcg tgccagtcgc cgcccgtcgc gatgggtaac 120

acggtggcac tggcgctgat ccggcggtgc aagtacctgg catcctccct gatgacgcct 180

cttctgccta gaagcg 196

<210> 35497
<211> 417

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A11

<400> 35497

tctgctctcg acccctagct cctttgttct cacacaggcg cggccccctc gttgggaccg 60

atatggctct ggcgaatcag gggaccgttg attaccccag cttcaagctc gtcatcgtcg 120

gcgatggtgg aactggtaaa actacatttg tgaagaggca tctcactgga gagtttgaga 180

agaaatatga accaaccatt ggtgtggaag ttcatccgtt ggatttcacc actaactgtg 240

gtaagatcag gttctactgc tgggataccg cagggcaaga gaagtttggt ggcctcaggg 300

atggatacta tatccatggc cagtgtgcga tcatcatgtt tgatgtaacc tcaaagctta 360

cttacaagaa tgttcctacg tggcatacgg acctgtgcat ggtctgtgaa aacatcc 417

<210> 35498
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A12

<400> 35498

cctttcgggt ccgtttccat tctaagcctg aacgaccagc tcctgcacac caacatcatc 60

gacatgcagc tcacgcacat gccctgcaac ttccccagcc tgaccatcac ctttctcttc 120

cagcacagct ccaaccccat gtacctgctc gtgctcattt aacacaacaa caacgactgc 180

tacctggtcc acgcctacat catgcataac aactccctcc actgcgaacc cattcacgag 240

tcctggggct ccatctgaag gatctacccc 270

<210> 35499
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A2

<400> 35499

accacgcgtt cggtggtgct ggccgcggtt ctggctgcca tgtggtggcg tcggtgctcc 60

gggaccggtt gtgtcgacgg cctgccgccc gtgcctacgg gttggccggt ggtggggaac 120

ctgttccagg tgatcctgca gcgactgccc ttcatgtacg tggtgcgcga cctgcaggag 180

aagtacgggc ccatcttcac catgcggatg gtgcagcgca ccctcatcgt ggtcacctcg 240

gcggagctca tccacgaggc gctcgtgaag cagggcccca tgttcgcgag ccggcccgag 300

gacagccaca cccgcctgct cttcagcgtc tgcaagtgca ccgtcaactc ggtgccctac 360

ggtcccctgt ggcgtgctct gcgccgcaac ttcgtcgccg agatcgtg 408

<210> 35500
<211> 58
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A4

<400> 35500

cccaggcgtt cggtcatatg gatctcactt actgttctct caagggcttt gtgtaaca 58

<210> 35501
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A6

<400> 35501

ctgatatacc tgttttacac tcttcagatg ttgcacatct attctcacat tttatgttac 60

tcatctgtca atggatcacg actttccata caccttacc taggaagcta tgcagattaa 120

cactactatg ccttcacaaa tatccactac cttcataaaa cccactacat tt 172

<210> 35502
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A7

<400> 35502

cggacgcgtg ggaaattcgt tgtgagcatt ttcttgcagc ctggagccta tgagctgatg 60

ggttacatag tgtatgagat cgaccagcac ccttaccaga atgtattcta caatggcact 120

attgaggtcg ttgaggctgg aggcttactc agtgttgagt ctgtgttcct catcaccctt 180

ggaatcgctc ttcttggtct ctttggatta tgggcatatg gccaggttca gcagctctcg 240

aagaaaacga agaatgcccc caaggtggag ctcggaactg gaacaactga tgccaacatc 300

gatgagtggc tggagggcac ttcgtttgtg cagagaagca aatccaagaa gaagcagacc 360

tgaagctagc tctccagact agttaatcct tggaggatct agaatgaggc atttgagggt 420

agcccttcac aagtgact 438

<210> 35503
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A8

<400> 35503

gggtccaaaa ctcatatggg agtttcaatt ttccttggtt caaggaggac ctttggccag 60

ggcactaact gcaaatctgc taaactgtat tatgcaacct tccacatctc tcaccactgt 120

ttccacagga gttttacatc tgggtccctc tttcaccact tgattgtcta cggtagataa 180

atcgtttgag ttctgaactg ccttaggtac ggcaatgctt gctacgttga cgaaagacac 240

cgccacagat acgaggtgaa tcctgacatg gtcccagaat ttgacaaagc aaggctttct 300

ttcgttggca aggatgaaag tggcgaacgc atggaagtat atatatgatt gccaactatt 360

ttcgtgaaga attaaccttc ttctaatctg gtctcatgta tttggtctgg cac 413

<210> 35504
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-003-Q1-K1-A9

<400> 35504

ctaagttttg cttccatctg gctggtgctt tgcctgactt cagtgaagac aatgaaaaga 60

tcacattcaa aagattgctt ttgaataaat gccaagagga gtttgagaga ggtgaaaggg 120

aagaagctga agctgataaa acagaagagg aaggtgagat caaacagacc aaagaagaaa 180

gagaggaaaa gagaatccgt gctcgaaggc gcatgctggg aaacattagg ttaatcggag 240

agttgttcaa aaagaaaatg ttgacagaaa ggattatgca tgagtgcatt aaaaaattgt 300

ttggaaattg tgatgatccc gatgaggaga acattgaagc actatgcaaa ttgatgagta 360

caattggtga gatgattgat cgtgcaaagg caaaggagca catggatgca tnatttggta 420

tgatgcataa gatgtcaaca agtc 444

<210> 35505
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B1

<400> 35505

aatgcatgcg agctgcactc ctgctccatt tacactttta cacagcacac tcccaaaacc 60

agagccaggt ccgtctgcac accggcccct gctttgacta gcctggccgc cgcagcgaca 120

gccatctcca ccgctgccca ctccctccaa ctccatggtc cgactccttc taaatcctct 180

acccacttct ctcaccgtct ccctatccct tgccacctcc gcacgcaacg cctgcacctg 240

gccgactcgt cctccgacct cacctgcttc ccctaaccga ctaccgtccc gaacggcgtc 300

tacgtaccgt ggtccgctgc cttcttcgta gccgaa 336

<210> 35506
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B10

<400> 35506

aagtagcaaa ccaatctccc ctctccgacc tgccggcgtg cgcgcggagc ctctgggtgt 60

agagcctttc gcctcggccc gtgctcctgt tcgaaataat ccgcctcgac gtgttcgtct 120

ccccctcccc ctctctcccc taccettcca tcgcgactcg tctcgtgcgt gactgcgtgc 180

tcgctctcct ttttggtgcg ctcatcttgt tatctgtgcc agcgctcgct tctccccgtc 240

cccgccctcc ttcctttcct tgtctagccg aaggccgaag ccactgtgcg cgcgagcgct 300

acgcgagagg tatctgctgc tgtgcccggc gcgcgcgtgc gtgcgacgat gtcgtcggca 360

gtggaggccg tctactgccc caaggtcgac gtccccgacg gcccggagcc tcttgagcct 420

gccaaggaag cggcgcacgc cgcggagcac tgcgaca 457

<210> 35507
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B12

<400> 35507

gactggtaca aagcataaaa acccaccact tttcatcgca cagactactg ccataatgtt 60

gcgtccgatc tcacaagcga ccctgcatgt tctcaaccaa gctactaacc agtgcttccc 120

tcatgtaacg aacctacccc acgctcgcat atgaagaaca ctgcgctcac ctgcaacaac 180

caaccgtaca acactctgca actacaacgc tcattcatgt tcatcatact aatgatgtgc 240

atcaaacgac acgtacagta caggtactcc agcaacacca gctaccgaaa cgtgccccac 300

accgaagcac tcgtcaagcc ttcgacccca acctgcgagc actatgacat catcatattc 360

acaaactgcg acttactatg aagcaacagc aggagctccc gcatgaggtg ccctgtcaac 420

<210> 35508
<211> 77
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B2

<400> 35508

ccggaacatc cgggccgacc cacgcggccg gacgggaggc ggctgccaac acgccgcagt 60

agaacctgaa cggagaa 77

<210> 35509
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H7

<400> 35509

acgcgttgca atgctggtac tctcatggtt ctaaatttgg ccgtcactcc aactgaacta 60

agcgagatcg tccctttgtt gcgtctggat gaagaccaaa ctggcaccga acgcttcccc 120

tcgacatcca acacattgag caatgcgatg accgaacatg ctttaaagga tgacctaatg 180

agccttatcc atgccatgct aggctaggct attgctgcgc caatagtact agtctaactg 240

tacaccgctt cgttacctag aataaaggta c 271

<210> 35510
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B3

<400> 35510

aatggtttcc ttctttttc actcttcatt ttaactttta cacatatcac ttttaaattc 60

agattccgtt catttgtaca cggccttaac ctactacaac actatcccaa actcaacatc 120

catctacacc agcaatcact ctattcacct ataatgacct aatccatcta aatcctctaa 180

catacactca a 191

<210> 35511
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B4

<400> 35511

gccagccctg cgactgcgtg cgtgcggctt tcgttcgacg agcaggcaga atggagctgg 60

acgcggggaa ccagaagcag gcgccgctag tcctcgcgct gtcctgcctc ctcctcctcg 120

ccccctcgt ctccgccgtc cccactccaa gaagcctgcg cctgggggc cagcagcagc 180

acccgccggc tctgaagctc acttcttctc aggaggcggc gatcgcggcg gcgatgaaca 240

tgggcaggcc gacggcgagg gtggccgtgg aggtgaacga ctaccaaccg tccggcccca 300

acaaccgtca cgacccaccc aagggccct gaagagcttg ttgaacggcg ctcggttgga 360

cgacccaata atgcttctcc ttcgttggtg tcatctttac cagcagtata gagtgctttg 420

ctagtgct 428

<210> 35512
<211> 399
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B5

<400> 35512

cctgctctca cttacattgc ttttaacaat gtaatgctca aatcatctca accaggttcc 60

gcaacttttc caatgtgcac aagctttaca tgaaagtctt ctaccctaat cttcaattag 120

aaccatttct aatctcagca atctagtcta attcttgaat ctttaaactc aggaacatgc 180

cacataaact tctaaagtat catctgacaa ttatgcaagc atatcacacg aataaactcg 240

actattagat gcacatacca ccaattctgc atgatacaac actaatacaa cagatactac 300

ataatcaaat taacttcaac gttaattgca tcatatgctc tcaatagccc taaacatttg 360

acaatctaat atatcttact atgtacaatc atggcttaa 399

<210> 35513
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G10

<400> 35513

gaggaaaagg gccgtggtcg ttgatgatga tgatgatgat gaaacggagg atcaggacag 60

ggtcgtgaat ggtggtgggt cgctcagctt gataataggg ggtagtgctg ctggtgctgg 120

agcgatggag aacggcgatg taaatgagga tgagagaaat ggaaagaaga tcagggtgca 180

aggaggcggc tcaagtgggc cggcatgcca agttgagggc tgcggagcag atctgactgc 240

agcaaaggat tatcaccgtc gggcacaggt ctgcgagatg catgctaagg ccaacaccgc 300

cggggtcgga aacactgtcc agaggttctg cccacaatgc agtagatttc accttcttca 360

agaatttgat gaagggaagc gaagttgccg gcgacgctta gcaggccaca ataaacggag 420

gaggaaaa 428

<210> 35514
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-002-Q1-K1-G11

<400> 35514

cagccagtca gccacatcac tagctatctg tgcagaggca atggcgtcca aggttgagct 60

ggtggtggag gtcaagtccc cggctgacaa gctgtgggcg gcgctgcgtg actcgacgga 120

gctgttcccc aagatcttcc ccgagcagta caagagcatc gagaccgtcg agggcgacgg 180

caagtcggcc ggcaccgtcc gcctcctcaa gtacaccgag gcggtgccga tgctgacgtt 240

cgccaaggag aagcttgaga cggcggacga cgagaacaag gtggtgtcgt acagcgtggt 300

ggacggcgag ctggcggact tctacaagaa cttcaagatc acgctgaagg tgactccggc 360

caaggcggan ggcgagggcg gcgccgtcgt cagctgggcc atggagttcg acagggtcaa 420

cgaccaggtg cctgacc 437

<210> 35515
<211> 114
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G12

<400> 35515

cccacgcgtc cgcacgagtt cagaaccgac tcgtgcttgt atccagacct gttttaaggc 60

tgtctgaact ctaccgttgc ccgttggtgt cattttagcg ccctttttt ggtc 114

<210> 35516
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G3

<400> 35516

ccagcgttcg ccacgctcgg aaaagggaac aaaaagaaac acttcttctg g 51

<210> 35517
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G5

<400> 35517

acggtcatga ccttggggca aagggtgcca tttgaatttc atggaacaaa ctatgtattc 60

aatgtcaatc aagctttgct agagggtcag gagagttcta caccattgga tagaggattc 120

ttgtcaagtg atacatacat catatttgag gctgctccta attcaggaat taaggtgatc 180

aaccaaaagg aagctgctag cagcaaactt ttcaaacata aagagtttaa cctggaaaaa 240

ttggggatag gtgggttaag tgctgaattc actgacatat ttcgtagggc attcgcttca 300

agagtctttc ctcctcaagt tgtcagtaaa ttgggcatca aacatgtaaa aggtatactg 360

ctatatggac ctcctggtac tggcaagact cttatggcac gacaaatggg aaaattattg 420

aacggaa 427

<210> 35518
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G6

<400> 35518

catttgtgat aatagatgag tgggttgtga ctaacatatg tcggtgattc acattgcata 60

cgagaatcta cttaggatca aaggtacttt ttatcagctg atcatcgctt tgactccaac 120

tcaaataacg cgtgacgcca tgtgggagca aagttgggaa aatggatatt ggtggtggtc 180

cataggtact gaagcaattg aaggacaaag cactaaagag agcgtggctg actgaagaaa 240

cattgcaaga gcagattgag cagagaaact gtgcaaggaa gaataaacag tttgagatat 300

ctgatggaat caggaaaaac cttgctacca agggcatcgg cctgatggat gaaccct 357

<210> 35519
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-002-Q1-K1-G7

<400> 35519

acggttctag ctagctagca aaggggggga aaatggctcc gcttctcgct gctgccatga 60

accacgctgc agcccatcct ggccttagga gccacctagt aggacccaac aatgagagtt 120

tctcacggca ccacctgccg tcttcttctc cacagagcag caagcgaagg tgtaacctta 180

gctntactac acgatctgca agagtaggca gccaaaatgg agtccaaatg ttgagcccct 240

cggaaatccc acaaagggac tgggtcccct ctgacttcac cttcagtgcc gacacttcag 300

cggaccaaat tgaaggtgct tggaatgaag atggaaaggg ggaaagcaac tgggatcact 360

tctggcacaa tcattcggaa aggatactgg acgggagcaa ttcaaacatt 410

<210> 35520
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G8

<400> 35520

cccgcacacc gcaccagctc agctcagctc agctcaccaa gacaatcaat catggctcgt 60

gcgcgcagtg tcgctgccgc tgccccctc ctcctgctgc tgctcgccgc cgccgcagcg 120

gggctcgtgt ccgccgcgtc gccggcagcc agcgacttcg tccgcaagtc gtgccgcacg 180

acgcagtacc cgtcggtgtg cgagcagagc ctggcgtcgt acggcgggtc gccgtcggcg 240

cggagcccgc gggaactggc gcgcgccgcg ctggcggtga gcgcggaccg cgcgcg 296

<210> 35521
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G9

<400> 35521

gaggcctacg acccacgcgt acgcgtgacg cagggaacca ctgcaggata tttcactaat 60

gaagttcaag gattgatggg ggatcgaaat ccaaagctcg cattaaggca aagataacac 120

atgacagtgt tgtgatgcag acaaaatgaa aacattctat gaaggacatt cgtagtcttg 180

ctgataacag taaggagttc cttgcataag aagaaagcca gataccaata catgaagtga 240

tttgctacag gtattatcat aatgttacca atgttaaagt gaaacacaaa ccgaacgaat 300

attaagaatg gatagaagat gtgtacgatg aggaattaga aaagatgatg gacacatttg 360

aagatgata 369

<210> 35522
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H1

<400> 35522

tcgcacaaac agcaaacaat gacttgtgtt tctggggtga ccagaatgct atgtacggga 60

atccaagtga ccaacaacag ggtttcaact ttggacaaaa cccatcaagt tggttgaacc 120

agccattttc ccaggttgaa cagccacgag tggtcaggcc tcatgcaacg gttgctccat 180

ttgatctgga gaagactaga gaaggaagtg gcttcaagat ttttgggttc caagttgata 240

caaccagtcc atc 253

<210> 35523
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-002-Q1-K1-H10

<400> 35523

aaatttcatc tcctggaggg ttgctttgct tgctcctgga atcttcagaa ccgaaggcca 60

ccgcgccaac cgcccaatta ccgaaccaaa ccctaccggt cgcggctcct ccatagtcca 120

tactctcgcg cgcctaaacc ctagccatcc tcctcgccgc cggcgaccgc cgccatgagc 180

cgctacgacg gccgcgctgc ggacgcgggc tcctaccgcg accgncgcag cgaggggcg 240

ttcggaggcg ggtcgagggc gttctcggcg cccgaacaag gcggacgctc ccggggcggc 300

ctcggagcta gatgggctgc cgagcttcga gaagaacttc tacgtggagt cacccgcggt 360

ggccggcatg acggaagaag aggtgga 387

<210> 35524
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-002-Q1-K1-H11

<400> 35524

cgaataatct cttcttcacc tcactaacac cagctagcaa ctctttctct cctgcaataa 60

tggccgctcg ctcctcctcc tcccagccgc agctggtcgc ggcggcggcg gtcctggcag 120

cggcgctgct gctgctggcg gcgggggccg ggacggcgtc ggcggcggtg agctgcggcg 180

aggtgacgtc gtcggtggcg ccgtgcctcg ggtacgcgat gggcagcgcg gcgtcgccct 240

ccgcggcgtg ctgcagcggg gtgcgctcgc tcaacagccg cgcgtcgtcg gcggcggacc 300

ggcaggccac ctgcaactgc ctcaagagca tgacgggccc ggctcgccgg cggcgtcagc 360

atggccaacg ccgncaacat ccccggcaag tgcggcgtct ccgtcggcgt gcccatcagc 420

cccaccgtcg actgcacca 439

<210> 35525
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H12

<400> 35525

gaaacttctt tccagttgct tggaagtttt ggagaattgg aggatttgct tgcacctttc 60

agtcaagaca tccaggaaaa tatatgtaga aagaaattta cactaccaga aacttctttc 120

cagttggcac ccccgaatcc cctgcgtaca gcacctcatc caaccatccc gttctgtagg 180

ttcaaagaag taaaaaacgg acgtcattcg tcagttgtgg aaatgaagca ctacgacttg 240

tgcacaatga atttgaatga agtgttgtcg agagtagaag agatgtcaca agaagaagca 300

tctgtttgcg gtcttatgga tatggatgag cctagtcctc ccagttgtga tgattcagtt 360

gaggttgatg acgacagttg ctatgaaggt ttaactgatg 400

<210> 35526
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H2

<400> 35526

ccaaatcgcc ccctctccca aaccctcttc atccccctcc cgtgctcgac ccagatcgag 60

ggctcgatcc gtcggccatg gcgctggagt gggtggtgct gggctacgcg gcgggcgcgg 120

aggcgatcat gctgctgctg ctgacgctgc cggggctcga cggcctgcgc cggggcatga 180

tctccgtggt gcggagcgcg ctgaagccca tgatgtcggt ggtgcccttc tgcctcttcc 240

tgctcatgga catctactgg aagtacgaga cgcgccccac ctgcgacgac gagcacgcct 300

ggaccccctg cgagcacctg cggcaccaga agtccatcat gaagtcgcag cggaacgcgc 360

<210> 35527
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H3

<400> 35527

cccacgcgtc cggcccccgg ccgatatcca caagatagag catactcttt ggtggtattg 60

atgatgaagg tttgggctgc atacgagacc aaaccggtgc gaaggttgtc ggtactttat 120

cgaagagtat cggcttcccg aagcttgaag cggatatcag ccgctaccgt cgacaacata 180

ttgtcagcag tttattctat tctaatttca aggtaaacat tttgagtcta actcttattt 240

cctttggtac gaaaatattt tctaacgaag gctatttgtc cacagaacat gcttttgagc 300

aaggcattaa aaatgcaaca agatttagag gataaaaggc aagaagttat aattgaaaat 360

ttagaaaaca aaatatagga gcaaactgct gctattgaga agaaagacct cgagctacaa 420

acaggcaaag ggtta 435

<210> 35528
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H5

<400> 35528

acgaccgaag tccggaacaa tggattgcat tctggtggtg gtagatcgat tctcaaaata 60

tgggcatttc ttggcgctgg cccacccttt ttctgcagca aaggtagcaa aacttttctt 120

ggataatatc tataagcttc atggtatgcc ggacaatata gtatctgatc gggatagagt 180

gttcacaagt ctgttctggc agcaattatt cactctcagt ggcacccaat tatgcatgag 240

ttcggcttat cacccacaat ccgatggcca gacggagcgc gtaaactagt gcattgaaac 300

ttatttgcga tgctctgtgc acgcctgtcc cagcaaatgg taccaatggt tagct 355

<210> 35529
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H6

<400> 35529

cttaagatcc ttcaaaaggt gaaagcaaca tatgaccttc cgatagtcac tgatgtgcac 60

gaaagccacc agtgtgaagc tgttggaaga gttgctgaca tcatacagat tccagccttc 120

ctctgtcgcc agactgatct tctagtggct gctgctaaga ctggaaaaat tatcaatatc 180

aagaaaggac aattctgtgc gccttctgtt atggtgaact ctacagagaa agtaaggctt 240

gctgggaatc caaatgtgat ggtctgtgag cgtggtacca tgtttggcta caatgatcta 300

tttgttgacc caaggaacct tgagtggctg agggaaagca actgcccagt tgtagctgat 360

gtaaca 366

<210> 35530
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G1

<400> 35530

atttattcct ctgcgtgcat gaggtgtcca gcgcccgata gggcgcttcc ttttctagta 60

ggtttggaat ttttttttagg cagaggaggc cctggattgt aaccaggact cgaggggcca 120

ggaacgaatc ccatgcgggc gatgagaaga cgtgcggcgg cagcgcaagc gagaagacaa 180

ggtgtcgatg agcagggatc gtgacgacga catccttccc gccgtcggca acctccacta 240

cgctgtcaag cttctatcca gttggtctct ctctcttttg ttagctaggg tacttgagtt 300

gagccattta gtggtcctag tgttcatggt agtggactag aggcgt 346

<210> 35531
<211> 419
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E12

<400> 35531

cgggttcgtg aggttctccg gggttcggtt tcgtgggtga gcggatcgag atggcggggt 60

cggatgttga gtaccgctgc ttcgtcggcg gcctcgcctg ggccacggac gaccactccc 120

tccacaacgc cttcagcacc tacggcgagg tcctcgagtc caagatcatc ctcgatcggg 180

agacgcagag gtcccgcggc ttcggcttcg tcaccttctc cacggaggag gcgatgcgga 240

acgccatcga aggcatgaac ggcaaggagc tggacggccg caacatcacc gtcaacgagg 300

cccagtcccg cggcggccgt ggaagcggcg gcggcggcgg gtacggtggt ggccgtggag 360

gcggcggcta cggcggttgg cggcgccgtg atggcgggcg cggctacggc ggtggcggc 419

<210> 35532
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E2

<400> 35532

agcaccttcc caaaaaaatc ccccattttc ttcgaggcga ggagagcgtg aaagacaggg 60

caccggcagc gacgatgtcg gggcgcggca agggcggcaa aggtctgggc aagggcggag 120

catatcgcca ccgtaaggtg ctccgtgaca acatccaggg catcaccaag cccgcgatcc 180

gtaggctggc tcggaggggc ggcgtgaagc gcatttcggg gcttatctac gaggagaccc 240

gcggcgttct caagatctta ctcgagaacg tcatccgtga cgccgtcact tacaccgagc 300

acgcacgccg caagactgtt accgtcatgg acgtcgtcta cgcgctcaag cgccagggcc 360

gaacccttta cggcttcgga ggct 384

<210> 35533
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E3

<400> 35533

tgcacgcctg cgaacatagg ttcactgttt gcgatccact cgggaatgat atagatcgag 60

gtactcatat gcctattata accgatgcgt acccatgcat gaattgaagc tatcatgtga 120

gcgaaagcac actgagggct aggttggaac aatcacagct tgtgaataat aatttgctaa 180

gaaatcgaaa tgaataac 198

<210> 35534
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E4

<400> 35534

tgaacgacgg cgtgaagagg ttcaccgtca acgcggtgtt agggatcgat attgacctga 60

agacgctgga agcgtttgcg gacgacaagt tcgatagcac gggctgtcag atctggggaa 120

ggaaacgact ttcagggact gtttggttga gatcaggcag ctcacgaatc tcctgctcag 180

cagccagcct gagaacttca tgaacccggt gatcaggcag agaaactacg ggtctctgga 240

ctacaagaag ctggccatca tttgtgaaaa g 271

<210> 35535
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E5

<400> 35535

aaacaaatat ggtttcagtg atatccgtcc atatttgatt cgattacatc cctaatccaa 60

ctcgtcgggc cacaaccgcg gtggcggagg cagtgctctg gtcatctagc ggacgatgcg 120

ggatgtcgga ggcggagcac cataccctat ggtcactcgc accatctacg acaaccgggt 180

tgtgatgatg aaggtcatga tggaggcgcg tggactgtgg gaggcagttg acaccaggaa 240

cgtcgagcgc aacgaggatt ggtgggctat ggaggcgatc ctacgagcgg ttcctgcaga 300

gatgcatcag tccttggggg cgaaaacgac ggcaaaggag gcctgtgaca acctgaagac 360

tatgcgaacc ggctcagggc tagtaaagcg gtcaagatac aacaactgcg gcaggagtac 420

g 421

<210> 35536
<211> 171
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-002-Q1-K1-E6

<400> 35536

gtgaacatgg gtgtggggga gctacatgca ggtatcggtc gttgaagaga gatctcctga 60

gaggagtatc tgcttcgcgt tccagctgaa aaagcacgcc ggaagagaag agagtacaac 120

ggncggtcga tcagctaacg atggatcgat catttttgc ccatatttat t 171

<210> 35537
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E7

<400> 35537

acgcccacgc gtacggccgc ggaccaccgt ggtagagagc cccggctgcc cgccgctccg 60

cgcgctcacc accgacatcc tcggcctcgt caaagtcgtc gaggcccacg cgaggccggc 120

gggcgccggc aaggtcgtcg agacgtgggg cgcgcctgac gcttgccgtg ccatcgttgc 180

tggctagcta gccgatcgtg ccgccgaacc cggcttggct ggggcgagga ggaacagcgt 240

ggttgagctg ctgaaaacc 259

<210> 35538
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E8

<400> 35538

tcgcccacgc gtccggataa ggtatctttt gaaagacgac gaggaagcaa ggatccagct 60

gggctcaaat ggctttgccg aggcactggt tgagttcttg aggaatgctg tgaatgatgg 120

gaatgagaag gcacaagaag ttggtgcaat ggctcttttc aatcttgcag tcaacaacaa 180

cagaaacaag gggctcctgt tatctgctgg agtcaccgat ctacttgagc aaatgatatc 240

gaatccacgg gtatctg 257

<210> 35539
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E9

<400> 35539

gcctcccgcg ctctattctc tctatctacc actactacta cccagcagca gcaggccggc 60

acacaataca cacactctaa tctctccaca cagccaacac agatacggac aggacaggag 120

gatgaagctg ggagcaaaag gcctcggcct cctgctcctc cttgtcctgc ttgcgctttg 180

ctccaccatt gaagtcggcg aggcaagaag agaccggcat tggaggtcgt cgaggacctc 240

ctcctctcag ctgctgaaga aaggcaaagg aaagaagacc agctcccgcc gccaatacgg 300

cagcaaccgg ccaagtccga agccaccggc cagctcgaca ccgagctctg gtgccggcgg 360

caaaggaaac cagactccgt accaaccaag cccgaatgcc cctcacattc cgaggccaag 420

ccc 423

<210> 35540
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F1

<400> 35540

cccacgcgtc cgtttcggtt gggccagatt gtcatactca gcgtcctgcc tcggggtcag 60

gcccaagtgt actgaaagcc agctcttgcc cgcatctaca cggccccatt ttcagcttgc 120

ccctccagaa ccggtgcatg aacagttgca tctgatccta agtcgttgct tcctttccct 180

tctttcttag atctagctag ccaccgtgtc gactggcgga tgatacagta tctccacatg 240

ctggttggtg agtgatgacc gtaccttgcc agatctgcag caaactatcc tatgctagct 300

cctcacatcc gcacaaaaca acacctttta gcaaaaaaag ttttttttg 350

<210> 35541
<211> 158

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F10

<400> 35541

aattactctc ttttactggt tcattcaata attcaatttg atgcttggaa accactggat 60

aataaataca aatgctatgg tatgattttg tgaattctga tcgctcaaaa aaaaaacaaa 120

taaaaaaaat aataataaaa aaaataaaaa aaaaagaa 158

<210> 35542
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F11

<400> 35542

aataagagag cagttgcaga atccggtggt gtccaggtcc tgctggatct tatcagttca 60

agcaatcctg acacttctgt tcaggcagca atgtttgtca aacttctatt caataatcac 120

actatccagg aatatgcgac cagtgaaaca gtcagagtta taactgcttc tattgaaaag 180

gatatatggt cttctggaag tgctaacgaa gaatatctca aagcacttaa tgctttgctt 240

agtaacttcc ctcgtttgag ggtcactgaa cctgccacat tgtgcattcc tcatcttgta 300

acatccctta aaacctgttc tgaggcaact caagaagcag cgctagattc actatatctt 360

ctcaggcaag cttggtcagc ttgcccagct gaagtattta aagcacaatc agtggctgca 420

tc 422

<210> 35543
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F12

<400> 35543

acgcgaccca ctgacagcac attagcagac ttagatggag agcatgtgca tcatggacat 60

agaacagcta cccagcttgc taatgatgct gatgcgaaat ggatagactt acaattaagc 120

actgcacata tctatttcaa tcatccctaa tgcactcaag cagttataac caaaatggtt 180

tcaagtggcc cgtaacctgg gcgcaatcaa gtgcggaccc ctaatgtgta ttagcatctg 240

acgcgggggc tgtgccctaa tacagatgga agatgaacct accagtcact tacagaatag 300

ctcataacgt ggcattctaa aatggagtat catttgtgat tagttagacg tgaa 354

<210> 35544
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F2

<400> 35544

cccacgcgtc cgggcaaacg ctgctctgtt cccgggtgca ccaagagtgc ccgcggtcgc 60

tctgattgct gtgtgaagca cggtggtggc aagcgttgca ggttcgatgg gtgtgacaag 120

agcgcacagg ggagcactga cttctgcaag gctcatggag ggggcaagcg atgcgcttgg 180

agcaccggct gcgacaagtt cgctagggga aggagtggcc tatgcgcagc gcatacgacc 240

ctgatggctt ccaaggtagt gcaccatcct ggacatgcac gaagcatggt cgggccttgc 300

cactttagcg gcggcgtctc tggttcgtca gcagctgata gcaacatgga tcatgcca 358

<210> 35545
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F3

<400> 35545

cccacgcgtc cgggagcatt cgagaagctt cacatggggg gcgaccacaa gaaggaggat 60

gagcaccaca agaaggccga ggagcaccac aagaaggagg agggggagca ccacaagaag 120

gacggcggag agcataagga aggcatcgtg gagaagatca aggacaagat caccggcgag 180

cacggcgaca agtccggcga ccacaaggaa aagaaggaca agaaaaagaa gaaggagaag 240

aagaagcacg gcgagggcca cgaccacgac cacgacggcg gccacagtag cagcagcaac 300

gacagcgact gagatctggt gttgcagcac aggtgcaaca caagtatgct tgctggatgg 360

aagattcata ccagctgatg gctgatgaag tgtttcactg gtggcatgca tgcatgtatc 420

gtgctattat a 431

<210> 35546
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F4

<400> 35546

cccacgcgtg cgggagcatt cgagaagctt cacatggggg gcgaccacac gaaggatgag 60

gaccaccaca agagggacga cgatcaccac aagaaggatg atggctagca ccacaagaag 120

gacgggcgtg agcataaaga aagcatggag gataagatca gggacacgat caccgtcgag 180

caccacaaca tggccggcga cca 203

<210> 35547
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F5

<400> 35547

acgaccacgg accggcctgc tcagatccgc caggcagagg cggcgcttgg cggcacggag 60

caggacctcg gagagcagca cggatgactc ccaatccccg aaacaagaga aggcgccgtt 120

cgggtacacg aggaaagacg tgctgctgat cggcctcggc gtcaccgcct tcggcgtcgg 180

cctcaagtac gggctcgagc tcctgggagt tgacccctg caggccggca acgtcgtgca 240

gctgctggtg gtgctcggga tgacggtgga gtggatctac acctacatgt tccgggtgag 300

caacaaggac atgacctact cgcaccagct cagggactac gagaagcaag tcat 354

<210> 35548
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E11

<400> 35548

ggctgccgtc aagaagatgt atgacatcca ggcaaagaag gtcaacacct tgatcaggcc 60

tgatgggaag aagaaggctt acgtgaagct gactcccgac tatgatgctc ttgatgtggc 120

caacaaaatc ggcatcatct aagtgctgca ttaggcatcc tagttcatct gttgtgtcct 180

agttctatgt gaaaccagag ttttgtagct atggctctca atcgttccat taccatgtgt 240

tatgcacact tctgaatttg atatcatcca agtgaccttt tgaact 286

<210> 35549
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F7

<400> 35549

cgaaaccgaa agagaggcag agcttggcaa tggagctccc gtggggaatg ctgctgccgg 60

tgctgctggt cctctccgtc tcgtcctcgt catcgtcgtc ggctgctgcc acgctcgccg 120

tcagcgctcc gcccccactg cctgttcctc ctcctcgtca tgctcaagac gccgaaggca 180

tgctcatcaa cggcaacttc gagacggcgc cgcggaagct gaacaagacc ctgatcgtgg 240

ggcgccactc gctgccggtg gggacggtgc aaggccacgt ggagtacgtc tcgggcggtc 300

cccagcccgg gggcatgttc ttcgcggagc cgcacggcgt gcacgcgctg cgcctc 356

<210> 35550
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F9

<400> 35550

cggacgcgtg ggcggacgcg tgggtgttga gggaaggaaa cctcgaggag gcagcaatgg 60

tggatgtttg gatcgaggtg gaggctaacc agtacaccgc tgcactgaat cccatcctct 120

tccaggtcct catcagtcct atgcttgggg gaaccaccga ccagaaagtt gcggatgaga 180

accttgagaa gctgaagaag gtgctagagg tgtacgaggc acgcctgacc aagtgcaagt 240

accttgctgg agacttcctc agcctcgccg acctgaacca tgtgtctgtc actctctgcc 300

tgttcgctac gccctacgca tctgtgctcg acgcctaccc gcatgtgaag gcctaggtgg 360

tctggtctga t 371

<210> 35551
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C5

<400> 35551

cggacgcgtg ggcggacgcg tgggtgctta gctcggtggt ctaatgccgt tcgggtatta 60

ctatcgacaa ctgctaaaac agagtggtcc tatcctgtat aaggagcact ctggtgtaaa 120

tattggattt agaccgatgg ctgatgaacc tacaagcttc ttatatgcct catatacata 180

tttcttgata cacacaagtg cgtctaaatg tcacataacc ttgcaccctt actaggtctt 240

accgcttt 248

<210> 35552
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C6

<400> 35552

acgcccacgc gtgcgaattt aatgagacag cagcttggat ttatgcaaaa agcatggagg 60

ggagacctta cgggtatcac aatatgatat ttagctggat tgacaccatc agtcataatt 120

atccaccacc attagatgct catgtggttg cttctgttat gactgtatgg agcaagcttc 180

aaccagagta tgctgctaat atgtggaaag aagcccttaa caaacggctt ggaactaagg 240

gtcttgacct ttctgaaatc atagtggaat cagagaaacg tgggataaca tttgacaagt 300

gtctaactgt tcctgagaac gatagctggg tctatgaaga tggtcagtca gcatcttg 358

<210> 35553
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C7

<400> 35553

ctcggatgaa tgaacatgag gagaattcac ctaaccctct tctagacacc attaatttcg 60

aaataaagaa gtcagtattt catttggtaa atatatattg gcaaagtgta gtatttcaat 120

agacaattta cagatgtagc cccatcacat gccagtggtg gagggtcgaa ttgatgaatc 180

tgttaacttg tataaactta gttaaaaata agttaagtat ataagtaaaa aaagtttatt 240

gtagagtaaa attgttaatc tgaatgttta tgccactttg atttgatttt aacgtagggg 300

aatcttctga ttttgcgggg agtaaaccac taaaggtttc attgtttgat tttccattat 360

atgtggcata gaaatatctt ctctttgatg aaacaaccaa gggagttcta ttttttttga 420

catcagacga aaatgccttt tcacctttcc tg 452

<210> 35554
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C8

<400> 35554

cttctatctg ttatctaggc tcctgaggga gttagatttg caggaaaatg atgtggagga 60

ccgtgggccc agatggcttt ccttccctga ttcctgcact tcgctggtct ccttgaattt 120

cgcttgcatc aaaggggagg tgaattctgg tgcgttggag agacttgttg ctaggtctcc 180

aaatctacgc agtttgaggt tgaatcgttc tgtttcagta tacacactct caaagatact 240

attgcgagcc ccaaatttgg aagacttggg gacaggtaat ctgacagatg agttccaagc 300

tgagtcctat tccaagctta ctagtgctct ggagaaatgc aaaaagctga gaagtctgtc 360

tggattttgg gatgcttctt ctatttgggt tccggatatc ta 402

<210> 35555
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C9

<400> 35555

caccaacagc ctcggggctc aactggcacg ggatttgtgg agagctgcgt atgacagcac 60

catgttgatc ctgaaattac ctaccttcaa aactacgaaa gtcacttcac cgtacctttc 120

aatttcaagc gccggagaag agagtactga gaggcgacaa gaagatcact agacaccact 180

gttcggtcta ggctatcttg agaaaggctt cttggtgggc taaatgacca aagactatat 240

gcaggactga gtggtcattc gaacatcaac tgagctatcc agtagccagg ttgtaagtgt 300

gttgtaatgc ttcaatgcgt atcattctcc aaagacctga gcttcgcttg tgatttgttc 360

cgaactgtac ggtgtcgatt ttgtgtatat aatataatat aacg 404

<210> 35556
<211> 170
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D1

<400> 35556

atgaacatga cgagaagtca cctaacccta ttctagacac aaattaaagt gggagtgaag 60

taagtgagtg ggtcatttag taactgtata ttggcaaaat gaagtaaaac aatagacaaa 120

gtacagatgt agccccatca cgtgccattg gtagagggtc gaattgatga 170

<210> 35557
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D10

<400> 35557

ctagttctag aggcgatgca tgcgcggcgg cggctgcacg gcgtgctgtg cgacatggtg 60

cgggagcgtc gtggccaggc ccaggcgggc accaccggcc tgctgggctg cctgatgcgg 120

tcccggggcg acgacggcgc gccgctgctg agcgacgagc agatcgccga caacgtcatc 180

ggcgtgctgt tcgcggcgca ggacacgacg gccagcgcgc tcacctggat cgtcaagtac 240

cttcacgacc accccaagct cctcgaggcc gtccgggcgg agcaggcggc ggtccgcgag 300

gccaccggcc gcgggaggcc accgctggcg tgtgcgcaca ccaagaacat ggcgcttacg 360

catagggtga ttttggagag ct 382

<210> 35558
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D11

<400> 35558

caaaactgta ttctgcttgc agcaagattc agatcttgaa tattttggag tcgacatgcg 60

tgccattcaa gattattctc tacaattcaa agatattgtg cactgccgtg cggaaattag 120

ggattttgat gcttttgatt tgcgattgag gcttcctgct gtggttagca aattgcacaa 180

acttatcaac tgtaatggtg gtgtaacata tatacattgt actgctggac ttggaagagc 240

tcctgctgtt gcagtgattc attgcagttg ataccgcctt tgtggaatgt tcaacaatca 300

gcacttctgt ttgtttgaag ataagataat atacctatta tctgtgcacc cgaaaaccaa 360

catctaatga ttgcctgctt gtgggaattt tgatggtccc ccgcatctgt tctctatagt 420

ccatttatgt tgggatacgg g 441

<210> 35559
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D12

<400> 35559

cccacgcgtc cgctgagtca atgaagatgg attctgtctg cctgaggtac accagagtat 60

tttggaactt gatcattgcg ccttggaagt ttttgtttgc ttttgtgccc ccataccaca 120

ttgcacatgg ctggattgct tttatatgct cactggtctt cataagtggt attgcttatg 180

gtgttactaa gcttacagat cagataagct gcgtcacagg agtaagtcca tatgttatcg 240

cattcacagc actggccgct ggaacctcat ggccagatct agttgctagc aagatagctg 300

ctgagcgtca agtcaccgcg gactctgcaa tagccaacat cacttgcagt aactcggtga 360

acatatatgt tggcattggt gttccatggt tgattgatac agtgtacaac ttcttcggtt 420

ac 422

<210> 35560
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-002-Q1-K1-D2

<400> 35560

tgacttcatt cccagcggcc ggcggcgacc tccacgtggt gccattcgcc ggcaacgagc 60

gcccgcccac caggatccag gtttgtgctg cgagagcgcc tatccattca ccatgattaa 120

tttcgtgctc ctgatcagcc gccagggcaa ggtgaggctc accaagtggt attctcctta 180

cacccagaaa gagaggacca aggtcattcg cgaactcagt ggactcattc ttacacgagg 240

gcccaaactt tgcaattttg ttgagtggag aggttacaag gtcgtatacc ggaggtatgc 300

tagcctgtat ttctgcatgt gcattgatgc cgaggacaat gagcttgaag tccctgagat 360

catncatcat ttcgtcgaga ta 382

<210> 35561
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D3

<400> 35561

gatgacttgc aggctccttg atgccatacg agaatattac tgaaatgcct tctgcttctg 60

cattcgattc acatatattg ggtgcaccca taaggcgagg gcatctatca caaaagtctg 120

tcatgaagcg aaagagatct ttcaagagac aaaaagccaa gttggtcatg gaaagcttga 180

aatttcattg catgacaatg atgaagagga ggcagcattg cagagagttg cccaagctga 240

acgtgcggca aaataggctg tacacagagc tattcgactg cgcaacaagg tccaattctc 300

atgacgaaca tagagctcgc aacatacaaa tctatcatgg ctctc 345

<210> 35562
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D4

<400> 35562

cccacgcgtc cgcccacgcg tccgcccacg cgtccgattc catccctggt taagaccaac 60

ccctccatct ccatgcatct ccaatgaaca acaactgaca gctctccgtg atctatctat 120

ctccttccgg tagctttttt tgcattggcc ttgcaagtgc tttattgcta gagtagctgc 180

gcttgcatta ttaactagat aagttagtga tggatctcgc gacgaccccg gcgcggctgc 240

ggcccatgga gcctggactg gcacggcgcc ttgtgcacgt ggtggtcggc gtgtgccaca 300

tacttggagg cggcctgttc cccaaacgca ttatgatgga c 341

<210> 35563
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D5

<400> 35563

cccacgcgtc cgattaccgg gaacctgtaa ggcctcaatc agctttccag ggtgttggaa 60

gaacccttgg tggtggacct tccccagatg agagtgcaac acctgctcct gcaccagcgg 120

cccctgctgc ttcgaggtcc gctggcatag tcgtggatga ctcccagcca tttacatcca 180

tacagctgag gctggctgac ggcactcgca tggtcgcccg gttcaacatg caccacaccg 240

tgggagacat caggtccttc atcgacgcat ctcggcctgg aaccgcaagg ccgtatcagc 300

tgcagacagg tttcccaccc aagcagctgg ctgacccaac gcagaccgtg gtgcaagctg 360

gactggcaaa ctcggttatc atgcagaaga tgtaatgttt cgacaacatg ggtaactagg 420

atgcatcgta ctgcatcctt tgagaac 447

<210> 35564
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D7

<400> 35564

acgcggacgc ctgggccgac gcctgggccc ggacgccatc atctcgtgca tcgggtcgct 60

ggggagcata ctcaggtcct tctgcgacgt gtgcagcgcc ttcttcggga gcaagctgca 120

aacgctgcag gacacgctgt gcaacacccg caccgactgc tacggcgacc tcctccgcga 180

gggcgccgcg gcctacctca actccatcgc cgacgagaag tacgcctaca gaacgcacca 240

agttcaggac tgcatcgacg tagcgctcac tttca 275

<210> 35565

<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D8

<400> 35565

tcgcggacgc gtgggaattg agattaaagt tagtttttct aggagtgtat tgaatcactc 60

tgtgactttc caaaggctag gatagactta tttctgagca aaaatatata tgcagccatt 120

ggaagtaacc atttggtcat tgaatttgga atttgatcat gtggaacatt ttagaatatt 180

tgccaagcat atacctactt aaacaaaaag gtctacacat ttgcacaact gttaaccaac 240

tgatttctgc aa 252

<210> 35566
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D9

<400> 35566

aaaggaattg acggaaggcg agcacgagga gcagcaggga gagggcggtg gtggctggga 60

tggcagcagc agcagcagcc ccaagcaggc agtcaaccct ggggaagagg aggtggtgga 120

atctggtcct gtgacagcga cgcccaacgc tgcttgtgga ttccaagaaa gcagctatgg 180

cgtggtggag gtggagctcg tcttgcctga cagcccttc gcgcccccca ccaaggagga 240

ggcctcatac gctgatgctg tcactgctgc agccgctcgg aacggtagca ccagcagcag 300

cagccctcgc catgtggccc ttttcgcacc cgcgtcttcc accaccctcg agctgccccc 360

ctacagctcc tcctgcttct ttcaggtgcc caaggtttc 399

<210> 35567
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E1

<400> 35567

gagtcattgt caccaagaac ctcaaaaccc ggctaagatt cctgcgttct ctagggagtg 60

ccttagacaa aaggttgctg ttgctactgg agcgctccct gcgacacctc ttgttcttgc 120

tagggcaccc atatgcattt ctgcttgaca tactacggag gacctgattc aagcccttga 180

tgttatcagt cgagttggcg accttgtggg cattaaatgc tttcctgtcc aaccaccaca 240

gattgctcga actgatcatg attagctcga cttacaatca acccttactt gccc 294

<210> 35568
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C4

<400> 35568

ccgcgtcttc ccctgcggac ctcgcaggtg ccgatgtcga gctagcaccg tacctcctcg 60

actccttcgg caacgccacc cgcatcgact acgggacggg gcacgaaacc aacttcgacg 120

gcttcctcta ctgcctcgcg aggctcggac tcatcaccga gcccgactac ccggccgacg 180

ttctgtgcgt cttcacagct tacctcgatc tcatgcgcac gctgcaggac acgtaccagc 240

tggagcctgc aggctcccat ggcgtgtggg gacttgatga ttaccatttg ctgccgtgca 300

tatttggggc tgcacagctg attgaccaca agtacatgaa gcccaagtcg attcacaacc 360

cagatatctt ggaaaatttc ttcaaggggt acatggatct ggcaggcgtt gcatatgtga 420

a 421

<210> 35569
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E10

<400> 35569

gccacgcgtg ctctaacatg tctatctacc actactacta cccatcatca acgggccggc 60

acacactaca cacactctaa tctatccaca cagccaacac agataccgac aatacaggag 120

gatgaagatc tcagcaaaat gtc 143

<210> 35570
<211> 385
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B1

<400> 35570

cgctaaaccc agaccaccac cggaggaaac agggatgaat tcgcagcccc agcagtcatg 60

gggagctcca tcaggttcct ggggtgcaca gtagatgaag tgatattgtg agagcccctc 120

cctgtcccag ccctagggct cgtagcggat cgtgagggat gattttgtgt ggtgtgtcgc 180

atgtgtgaaa tgcctttgtt gtcccaatat tcctaccgtg ttgggggtgg tcgcttgctc 240

gcgtccacgt ctttcacatg aattggttac tgtggtagtt gtaactctgg atacggtacc 300

aaaacataag tattgctgtc aacaatctgc aacagccggg aaaacagtcg ataacctttg 360

caaataatac cttgtggcgt ggaaa 385

<210> 35571
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B10

<400> 35571

gactcacttg atgctgctgg cactaacgcg gatgctgcca gtaagattga gaggttggtg 60

attcaaccga gagtagagga tgcagtactt ggccggcgga aagctgaaaa cgcaatggct 120

tggcgggcag tgtttacatc ggccgggttt gctccggtac cgctcagcaa cctcgcagaa 180

gcacaagctg actgcctgtt gaagcgcgtg caggtccgag gattccatgt ggagaagtgt 240

ggaatgggtc tagcactcta ctggcagagc ggcgagctcg tgtctgtctc ggcatggcgg 300

tgctgatcat acggacccca tccatcaacc atcatgacac ctacaccaat ttgcaggcat 360

gtttaaccct ggtaatgtgc attttgtctt gcaatttcaa acatcgtgaa gaaaacta 418

<210> 35572
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B12

<400> 35572

cccacgcgtc cggtctttta cacatagtgc acctgagatt gagaaactgt ttgagtcagt 60

ggctaggtcc tgcggcgcaa aagctgtaga tgaaggaatc agtgtgcagg atggcagtca 120

ctaataaagt aatttgcttt gttagtgctg tttttgtgct atttcgcact gtaaattgtg 180

tgctacccta tctgggcttg tacagaccac ggaaatacat agtgcgtcac gtcagctatt 240

tgggtgcctg tgctttgcct ggtagctagg aattactatt gatcgccaga tgctccaggt 300

gcaaattttt ccgtggactg gttcacttat ttgattcaac tatgtcagaa tggtagatgg 360

tgcgaacttt agcttagata gtgagttgaa gttgcagcat g 401

<210> 35573
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B2

<400> 35573

ggcttctcct ccccctccgg ttcgggttcg ggttcgtgag gttctccggg gttcggtttc 60

gtgggtgagc ggatcgagat ggcggcgtcg gatgttgagt accgctgctt cgtcggcggc 120

ctcgcctggg ccacggacga ccactccctc cacaacgcct tcagcaccta cggcgaggtc 180

ctcgagtcca agatcatcct cgatcgggag acgcagaggt cccgcggctt cggcttcgtc 240

accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg gaaggagctg 300

gacggccgta acatcaccgt caacgaggcc caatcccg 338

<210> 35574
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B3

<400> 35574

acgaaacatt aatgatcagt actggacact gcgtgcggag gaggttccag atgaggagaa 60

aagccttggt ccctttgatc gattgattca tgtatatcat tttacaaaag atactcaaaa 120

ccaaacgcaa gttcagaact ttggagaacc tttttttatg gttattcgtg aggatgagac 180

cctatcttct atcaaagagc gtatacagag aaagcttaag attccagatg aggatttctc 240

aaagtggaag tttgcataca tttcacttgg tcgtccagac tattttgaag attcagatac 300

tgtaacttta aaatttcaga gaaacatgta tggagcttgg gagcagtatc ttggactgga 360

acatccagac aca 373

<210> 35575
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B4

<400> 35575

cggacgcgtg ggtggtgagc cgccacatgg gaaacttggc tgggccatct atggggatca 60

aggttcattt gaggcacttg caaagaggat gaatgcataa agcgctactt tactaggatc 120

tacatggctg cggttagcta cggatagaca ggcaaaaccg ctttcagtcg aaactacatc 180

taatcaggat ccattggtga ctaaagg 207

<210> 35576
<211> 144
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B5

<400> 35576

catgacaggg aattctagta tataaatata cctatcctta tcagctgatt acatattaac 60

atgactagta tcaacctttt actatatatg acatagaaga taaatgcgta tcaataatca 120

aagattatta acatataagc ttat 144

<210> 35577
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B7

<400> 35577

cggacgcgtg ggtggggagc cgccacatgg gaaacttggc tgggccatcg atgaggattt 60

tggttcattt gaggcacttg taaagaggat gaatgcagaa ggcgctgctt tacaaggatc 120

tggatgggtg tggttagctt tggataaaga ggcaaaaaag ctttcagttg aaactacagc 180

taatcaggat cctctggtga ctaaaggtgc aagcttggtt ccgctgttgg ggattgatgt 240

ctgggagcat gcgtactacc tgcagtacaa gaatgttagg ccggattacc tgaacaacat 300

ctggaaggtg atgaactgga aatatgctgg agaggtgtac gaaaatgttc ttgcttgaat 360

tgtcttaatg gacaatactc atct 384

<210> 35578
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B8

<400> 35578

cggacgcgtg ggcttgggtc tgggatcatt tcttcagcca gatcgagcct attgctgcca 60

gtactccata ccatgtctgt ataggaaatc atgagtatga ttggccatca caaccctgga 120

aaccatggtg ggctacatat ggaacggacg gtggaggcga atgtggaata ccttatagtg 180

tcaggttcag aatgccaggc aattctattc tacctacagc taatggtggc ccagacacca 240

ggaatcttta ttactccttt gactcaggcg tggtgcattt cgtctacatg tcgacctgaa 300

cagattttgt tcagggaagt gagcagcaca acttcttgaa agcggacctt gagaaggtga 360

ac 362

<210> 35579
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B9

<400> 35579

acgcggacgc gtggggcaat atcaattgta gtttgtgctt tcttggcatc gtgcggactg 60

agttttaatg tctagtgtgc tacctttttg ggatcaaatt agatatgcac tatttttaag 120

tggaagtatg cttagaatac ttctacaaag tcctaggatt ttgcagattt tgtttgagca 180

gctaactaaa ggctcctaag tgatgaagga aacatagctg agcagcaaat gaaacacaac 240

tttccttttt tggagcagaa taccaattct tcaactgagt ttgccttggt tttttagctg 300

gacggtgatg agtttctggg ctaaataaaa cctacaaaga tggctcttct ctggtctacg 360

attctgggga ctgaaatgca agcatgtgtg atctgtctga tgtctgccaa gaaaaag 417

<210> 35580
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C1

<400> 35580

gttcgctgca gtccaaggat tgttgctgta gcacttgcag cacaaatcta ctgctttgat 60

gctgttactc ttgagaacaa gctcagcgtc ttgtcatatc ctctgcaagg tgcacctggg 120

gtaaatattg ggtatggccc gatggctgtt ggccccagat ggttagccta tgccacaaat 180

actcctttat tgtcaaacac aggccgtcta agtccacaga acctcacacc ttcaccaggt 240

gtgagcccat ctacttctcc tagcagtggc agtttagttg ctagatatgc aatggagtcc 300

agcaagcaat tagcttctgg tattattgac atgggatata aaacattttc aaagtaccgc 360

caggaacttc taccagatgg ttctaacttc 390

<210> 35581
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-002-Q1-K1-C10

<400> 35581

ggccgatcgc tcctgctcct accagccgca gctggtcgcg gcggcggcgg tcctggcggc 60

ggcgctgctg ctgctggcgg cgggggccgg gacggcgtcg gcggcggtga gctgcggcga 120

ggtgacgtcg tcggtggcgc cgtgcctcgg gtacgcgatg ggcagcgcgg cgtcgccctc 180

cgcggcgtgc tgcagcggng tgcgctcgct caacagccgc gcgtcgtcgg cggcggatcg 240

gcaggcccct gcaactgcct caagaagcat gacggcccgg ttcggcggcg gcgtcagcat 300

ggccaacgcc gccaacatcc ccggcaggtg cggggtctcc gtcggcgtgc ccattagccc 360

aaccgtggac tgcaccaaga tcaactgatc gatggaacca tagtggaggt agctcgctcg 420

ttggatg 427

<210> 35582
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C11

<400> 35582

cacagacaag tggtttccaa agccaagtgt gtgtactagc aaccagctag ctcgggcggc 60

agcaggcagc catcatgtcg gaggagaagc accaccactt cttcaaccac cacaagaagg 120

acgaggagca gcccgccggc gagtacgggt actccgagac cgaggtggtc accgccaccg 180

gcgagggcga gtacgagagg tacaagaagg aggagaagga gcacaagcac aagcagcacc 240

tcggcgaggc cggcgccatc gtcgacggcg ccttcgcact ctacgagaag cacgaggcga 300

agaaggaccc cgagcacgcg cacaggcaca agatcacgga ggaggtcgct gccgcggcgg 360

ccgtcggcgc cggcggctac gtattccacg agcaccacga gaa 403

<210> 35583
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-002-Q1-K1-C12

<400> 35583

aacagctcaa atactgacta caaggtctgg aaagacctat gagaattgct gcaccattcc 60

tgtatctgag ggtgggcaat tgacaggcca agaagatatt ggaaatgcat cacgtcaaga 120

cctacgagaa ttgctgcact gttcctttat ctaagggtga gcaattgaca ggccaagaag 180

atagtagaaa tgcatgacgc cttcaaaaat atgttcttaa catagatagt tgtttctatc 240

attctgcggt cagatatatg tgcatagttn tgggaacact agcagctggt aactgatttt 300

tatttgtcat gcctattttc ttgtaccttg tattcttctg gtgcaatata agctctatct 360

ctct 364

<210> 35584
<211> 219
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C2

<400> 35584

ggggtacttt tcacactata ttggaaaaag aagctattat atatctttga ctgaagaaaa 60

gtgtcgatgt ataattatct ttttttcgtg tccgtgtatg caacccctcc tctcatagac 120

ccatagcgcc aaatagtcat ccaatgaata ttctatctga ctctttgtat acctctctct 180

tagtttaaac gggctatcta ttctttactc tcaaacaga 219

<210> 35585
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A9

<400> 35585

gtgtacgtga agctgggcca ggggctctgc tccttcaacc acctgctgct cccctagggc 60

atcgggacat tgccggtgct ggacgacagg gccctcacgc ggagcttccg ggaggtgagc 120

ccacccccg aggcgtgagg cggagagtgt ggccccatgg tgtcccccac gctgctcgag 180

gcgtgttcct ccaagtggat gagctgttcc tcgaagactt ccaggccccg ccccacgagc 240

tcttccagga gtttgactac cagcccattg ctgcagcgag cctggcccaa gtgcaccgtg 300

ccaggctgca cgatggcacc gtggtggccg tgaaggtgca gtacattgac ctgcgggacc 360

gctttgatgg cgacattcac accctgtagc tc 392

<210> 35586
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C3

<400> 35586

accggccgat ccggtcgccc acgctcgtcg agaagactga ggaatactac cctctttaac 60

ccataagtcg aataagaagc agttttcatt tggaatatat attggcaagg ttatttcaat 120

agacattaca gatgagccat cacatgccat ggggaggtcg aatgagaatc tgtaactgat 180

aaacttatta aaaatagtaa gtatatagta aaaagttatt gtagagaaaa tgtaatcgaa 240

gtttatgcca cttgattgtt taacgtgggg aatctttgat gttcggggag gtaccactaa 300

gttcattgtt gattttcata tat 323

<210> 35587
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-001-Q1-K1-H11

<400> 35587

cgctgatgct ggtggcgtgc accgcggggt tcgttctcca gtggcgcctc gcgctcgtgc 60

tcctcgccgt gttcccgctc gtcgtgggcg ccaccgtgct gcagaagatg ttcatgaagg 120

gcttctcggg ggacctggag gccgcgcacg ccagggcgac gcagatcgcg ggcgaggccg 180

tggccaacct gcgcaccgtg gccgcgttca acgcggagcg caagatcacg gggctgttcg 240

aggccaacct gcgcggcccg ctccggcgct tgttcttgaa aggggcaatc ggccgcagcc 300

gcttccgggt ggcgcaagtc ctgctggacg cgtnctacgc gctggggctg tggtacgcgg 360

cgtggctggt gaagcacggc gtgtccgact tctcgcgcac catccgcgtg ttcatggtgc 420

tgatggtgtc cgcgaac 437

<210> 35588
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-H3

<400> 35588

ctttctttct cggaggcgac agctcgaact cgaatccctc atccagcctg tcgctggcgt 60

cgccggtcgc cgccgctcga ttgcctccgc ctgaatatcc cttgccccat aaggcctgac 120

cttgaaagcc tcgccacttg atcccggcgg cggcggaggg gagggcgatg ccgaagcgga 180

cgacacacac ctactcgagc gaggacgcac tgccggaggg ccccgagtcc gacctttcg 240

tatactactg caagcactgc gcctcacatg tcctcatcac cgatacccaa ttgcagaaaa 300

tgcccaagcg aaagactgac agagcacatg ttttagacaa ggctaagcat ctttcaaggc 360

taaatgttaa ggaggcagga aaagtaatgt tgaaacgtgg tg 402

<210> 35589
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-H5

<400> 35589

atcattgctg aagtagatac agatcatgat ggaagaatta attaccagga gtttgttgcc 60

atgatgagga acaacagccc tgagattgtt ccaaatcgga ggcgcatgtt ctaactgtca 120

tggacaatca cattgaatac tttcaagaac aatctgccct tagacataat ctttgtccca 180

ttttcttttt ggaacagccg ttaagaagac tccttaattt gagatccatg tctctgctgc 240

ccggacctgt ttgtcccaaa atagggtggt gttatagtga ttcgtacttg atgctttgag 300

cttcatggac tcttgcgtgg caatgtttat ccccattgta cgtctggttg ttctgctgct 360

tcgatctgag gctttcttta ggtgtaaacg gatatctgaa 400

<210> 35590
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-H6

<400> 35590

gaaagttgcc cgcacgtcta ctttgttggg aatcaagata aatatgaaac tcgactgggg 60

gaagggcaag aaaaacagaa agtgaggcta atctccatcc caaggttctc ggagagtgga 120

gtcgctgtaa tgctcaatct gaggaacttg gaatgcagca cattgagttt ctcaacaagc 180

tttgatgcct gaatatgctc tgatgtttgt aagtgcagaa gacttcaatg tagcatgttg 240

agcggcatga gcacgaggga actacgtgaa ccctttgtgg ggtgtggggg tgggggcatg 300

gaaggatgta tttgtaccag aacagttctt tattagatgt atgatgatga ccttaggttt 360

tgccaaatag atcttttaga atgcagatgc tgtaacttgt aaccacaacc g 411

<210> 35591
<211> 185

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-H7

<400> 35591

gacagaccta ccatagtaga gcacatggat gatcacatcg atatagacaa cctgatggca 60

gagctgatgg tgaatctaga ctataatctc gactatggta ccaccgatgg gaccatcatg 120

gcgggagcta tggtagagcc tgctgagaag cttgctgagc atcttattga gcgtattatg 180

gaggc 185

<210> 35592
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-H8

<400> 35592

acaacttctt ggcccgcgac ctgacgatcg agaactcggc cgggccgtcg aagcaccggg 60

cggtggcgct ccgcgtgggg gcggacctgt cggcgttcta ccggtgcagc ttcgtggggt 120

accaggacac gctgtacgtg cactcgctgc ggcagttctt ccgcgactgc gacatctacg 180

gcaccatcga cttcgtgttc ggcaacgcgg ccgtggtgct gcagggctgc aacctgtacg 240

cgcgcaggcc gctgccgaac cagagcaaca tcttcacggc gcatgggcgg gaggacccca 300

accagaacac gggcatctcc atccagaggt gcaaggtggc ggcggcggcc gacctcgccg 360

tcgcccagtc cttcaccaag acctacctgg gccgtccatg gaagcag 407

<210> 35593
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-H9

<400> 35593

cgacgcctgg cacatgatcc ctcattgaat gatgttgaag agaccatggt agagacgatt 60

gccctctgcc agagaaattc acataatttg aaccaacagc agagagaggc actctggttt 120

ccgttattgg aggcaatgat ggccccctcag aagctgtcta gttcagcttc acctcatcca 180

cactctgaag ctctgaaatc tttgaccatg caagttctca acagtatggc agcatttatt 240

gcccttccat ccatcctgca gcgaatctta caggacccag tttattgaaa aggaaaactt 300

ggagaaatcc aaggccttat tctgggaatg ttggatacct ttaactatga acagaccctg 360

ctggaaacga caacta 376

<210> 35594
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A1

<400> 35594

gcgccaactt gctgaacggg ctgatcaacg cgaccctggg gacgccgccc aggacgccgt 60

gctgcacgct gatccagggg ctggcggacc tggaggcggc ggtgtgcctc tgcaccgtcc 120

tcagggccaa cgtcctgggc atcaacctca acctgcccat caacctcagc ctcctcgtca 180

actactgcgg caggcgcgtc ccctcgggct tccagtgctt ctgactatca cacgcccatc 240

gatcgatcga tctgcaggct aaataatttc tccaagctag tatacgtacg ttgatatata 300

tatgatgtag tattattata tatatgtcca tgcatgcaat gcatctcgtc gtc 353

<210> 35595
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A10

<400> 35595

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgcc cacgcgtgcg 60

atttcagccg ccgccgcgcg tagcaagcag gagcagcaag gatgccggct ggccacgggc 120

tgcgctcgcg gacgcgcgac ctgttcgcgc gccccttccg caagaagggc tacatcccgc 180

tcaccaccta cctccgcacc tacaagatcg gcgactacgt cgacgtcaag gtgaacggcg 240

ccgtccacaa ggggatgccg cacaagttct accacggccg caccggtcgc gtctggaacg 300

tcaccaagcg cgccatcggc gtcgagataa acaagcaggt gaatggtcgc atcatcagga 360

agcgtatcca tgtccgcgtg gagcatgtgc 390

<210> 35596
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-002-Q1-K1-A11

<400> 35596

caaaggagcc ccagaagatc tttcagattt tttgcaacta ataaaatatg tcagtgggtc 60

ctatgatact ggagaaggat ttgagaaact gaacagggca atatcagagt atgaggtgtc 120

aaagagttca ggaagctatc gcaggctctt ttatttggca ttgcctccat ctgtctaccc 180

ttcagtgtgc aaaatgatca gaacatattg catgaatcca tcttctcacc ttggatggac 240

cagagtcatt gttgagaagc cctttggaaa ggacttggat tccgctgaag aattaagtgc 300

ccaacttggg gagctattcg aggaacacca actatacaga atagaccatt acctgngaaa 360

agagttagtc caaaacttgc ttgttcttcg ttttgccaac cgattgttct tgcctctttg 420

ganaccgcga catattgata ata 443

<210> 35597
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A12

<400> 35597

cccacgcgtc cgaccacgcg tccgaaaaaa aatacaaata ataaaatata aaggaaaaga 60

gatataatac tggagggcgc tttagaggaa atgaacagaa aggatgtccg actgtgacgt 120

gtctgagctt tcaggcgcgt tatcctattc tctttcattt gccgttgtac tgatttcgtt 180

accctacaaa gtacctaatg aatctacaca ttttgcgtct atctatattt tcaccttaac 240

tgaaccagag tcattgctat gaagcccttt gtatacgact tgcataccgg ttgcgaatta 300

agcgtcacaa ttggcgcgct cttcgtgga 329

<210> 35598
<211> 392
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A3

<400> 35598

gagctacgcg tacgcgatac ccaaggccaa cgtttcctgg tgcaatccgt ggacgactgc 60

cactcagggg tgtggcccag agcttacagt ggaagcgcag tgccacagat tcctcaactg 120

ctgtaaaacc aagtcaggct gcaccttcag ctcctgggaa tcagttggtc accccgaccc 180

cacgaagctt cacctacaca cgcacggagc caaaaccaaa tgacggtgcg atggcttgac 240

tgctcagctg cagcatgccg cagctcctga tgaatctcgc agaaagagtt cgtgatactg 300

ttacgtggtt cattcagctg cttttggtaa atatttaagt agctgcagat gttaagttgg 360

aacaagctgg tttttgtgga ccaaaaactt tg 392

<210> 35599
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A4

<400> 35599

caaccagcaa gcaaaaattc cccaatcctg tcgtgtccga ggctaagatg tccgggcgcg 60

ggaagggcgg caagggcctg agcaagggca gcgcgaagcg tgaccggaag gtgctgcgcg 120

acaacatcca ggggatcacg aa 142

<210> 35600
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A5

<400> 35600

gggagttgac ttttgtaaga agctctgtgg agtctctatt gtgcgaagtg gtgagagtat 60

ggagaacgca ttgcgtgctt gttgtaaagg aataaaaatt gggaaaattc taattcatcg 120

tgttggagac aatggacaac agcttgttta tcacaaactg cccatggata ttgctgaacg 180

acatgttcta cttttggatc cggtgcttgg tacaggcaac tcagtagccc aagcaattga 240

ccttcttata agaaaaggtg ttcctgagga tcggatcatt tttctcaatc tcatctcggc 300

tcctgaaggg attcagtgta tctgcgagcg atttccttcg ctgaagattg ttacatctga 360

aatcgattat ggtc 374

<210> 35601
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A6

<400> 35601

cccacgcgtc cgatcagcag tttatattgt gttttgtacg tattaaaaat gcaagaatca 60

tgagcaaaac gagcaaaatt tgaatccatc agctgtttat attgtaataa agtatgacaa 120

gctctctgaa aaaaaaatca gttgcgtaat ctgtccaatg ttgcatttga gctattgcgc 180

tagttaatcc ttttattttc ggtatgactt gcagtgcctc tagagatgga gattctatgc 240

taagggttta ggagctgcat tggtggatgg tacattgtgc tttctgcgcc gtgcttgctg 300

aaagtctatc tgaatgtagt ttaaaggatg gtttatgcaa gtgttcccga tatttc 356

<210> 35602
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A7

<400> 35602

gcatctcgct ccttgtcgac aagacatcca ccatgcaaga cagcgccttt cactggcgca 60

ggcaatccaa gaggctgcgt agagctcttt ggatgaagaa tgccaagctt ctagttgtgt 120

tgacagttgt catagtagtg ctgctctact tgatcatttc tgctttctgg ggaggccttt 180

gcttgtcatc atgcagatca tgagttacac accagatggc tttggccctt ccttaaaatg 240

ga 242

<210> 35603
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A8

<400> 35603

tcggttgcag aaaatgagag ttgaaatggc tggaatgaga agagatgcag agcattattc 60

tagacaggag catgttgaac ttgagaagag ataccgtgag ctaactgact tactgtacca 120

caagcaaaca caattggaat ccatggccag cgaaaaggct gcgttagagt tccaactgga 180

gaaatcattg aaacaatttc atgaagtgca gattgaggca gaaaggagta aagctactcg 240

cagatcagca tcgtcgtggg aagaagatgc tgatatcaag gcattagagc ctgttcctct 300

acatcatcga cacatggcaa cagcaaatca gcagttacaa aaggctgcga agcttttaga 360

cacaggagct gtgcgctcaa caggattt 388

<210> 35604
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-H1

<400> 35604

tcgggagcag aatcccccaa tcgatctctg tggtcttcac atcagcgagg ccatgcacgt 60

gctgaactac gagctcaaca accgaagaaa gatcgtgaga tccactggtc gccgactcca 120

ggctatgatc atatcaagcg cccgcacccc agcaaggctg actgctgccg tcgagcagta 180

cctcatggaa cacggccttc agtacacgca ggcgcaacca ggcctcttcc gcgtcctgct 240

ctagtgatgg agccggccta gctgttgtca catagacgag aaagaagacg tacaaagttg 300

tacttgcgta tatggcagag atggctagca ggatagaagc gttaagatag ctcatgcatt 360

cacatatcag gctttagcat atgtatacat cttacaagtt gcggagtt 408

<210> 35605
<211> 117
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F5

<400> 35605

gtttgttgtg tcaactgtca taactattgt gcatttttgg acgctatatg tgtagccgtg 60

atatgaatag atttactgta cttataaggg ctggtgtgac tcagccgttt gctcctt 117

<210> 35606
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F6

<400> 35606

tcgcccactc gtccgcccac tcgtccgata ttttcttgtt ttagtcaaga tgctcaaaag 60

gttggaaaaa tccaagtgac tgcctttcag tcagaggatg aactacagga tgaatctcat 120

gtacatgact gtatggctga ctacagatta agtgaggcct tattgtctaa ggttacctgt 180

gatgtagtaa ccgaggagct gaatgtgaac agatgctctg aatatctgta cttcacatgt 240

agtattgttt taagatcgtt atatgagagt ttgagcg 277

<210> 35607
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F7

<400> 35607

cggacgcgtg ggtggtgacg ccggagatcc tgaagccgga catgatcgcg ccgggggtga 60

acatcctggc gtcgtggacg ggcaaggccg ggccgacggg cctcgccgcc gacacccgcc 120

gcgtgggctt caacatcatc tccggcacgt ccatgtcgtg cccgcacgtg agcgggctgg 180

cggcgctgct ccggagcgcg cacccggagt ggagccccgc cgccgtgcgc tcggcgctca 240

tgaccacggc ctacgccagc tactccggcg ggtcgtcgct gctggacgcg gcgacgggcg 300

ggatggccac gccgttcgac tacggcgcgg ggcacgtgga ccccgcgcgg gcgctggacc 360

cggtgctcgt ctacgatctg ggcacccgcg actacgtgga 400

<210> 35608
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F8

<400> 35608

ctgaagcaaa attcatcctt gatgccaatt atgttatcgt cactggctgt acctttggcg 60

cttacctgga atattgttgc tccctggtgt ttccaaatcc cagctgctgg cttggcctaa 120

aacgaaaatc tccaggctcc agctgctagc tgtcataccc tacaagtgat ggcaccacac 180

tctacactag aattgttacc tagtgctgcg aacagcagca ggtcaaggcg tctgtagact 240

ctacatgtaa ttctcgaaag aaccaagact tctgcattta atgtaggatc agctgtgctg 300

tgctctt 307

<210> 35609
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F9

<400> 35609

gcaagacaat gtttgagcga atagatggtg catttcaaaa gggaatgtct gagcactcca 60

ccgctattca gcatcaagtc gagtcttcac atagtccgtt agcgctaact ctaaaagaaa 120

tcatcaattc tgcatcatcc atcacccaga gtttttcatc ggagttactt gatggcaatc 180

gcaagctact ggcacttgtt acttctggga atgccatggc acataatacc agtgctttgc 240

agcccattaa tggtcctatg ggtggatccc aggaggttga ggctccgtta gatcctatga 300

aagagctggg cagactgata tctgaacgca agtttgacga agcatttaca atggctcttc 360

aaaggagtga tgtttccata gtatcgtggc 390

<210> 35610
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G1

<400> 35610

tcgtcttgct gctgctgctg ctgctgtcgc tggatggcca ggagcacacc agctgcttgc 60

tgtgtcgccg tcgtagaagc agccgcgcgc tgtcgtcgtc gtctcgtccg cgacgcgacc 120

actgcggcgg ctgctgctgc ctcttatgct ggccacgcca ccgacgcttt tgtgatacca 180

tactaagcgc cgtggcgggc acgttggaga tgtcgtcact gggtgggcaa cagcagcacg 240

gccgctgaga ccaggccagg gcgcgtactc acgtggactc gccagctgca cggtcgcttc 300

gtgctcgccg tggcccagct cggcggcgcg gacaaggcga cgcccaagtc cgcgatgagg 360

tcgatggccg cgtcggggct cacg 384

<210> 35611
<211> 283
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-001-Q1-K1-G10

<400> 35611

cccacgcgtc cgaggtgctg ctggagggta tggacatggt ggcggcggcg gtggcggtgg 60

tggtgagggc gcgggagctg gtggctctgg gtacgggtcc gggcaaggat ctggctacgg 120

agctggcagc ggtgctgccg gtggatatgg gagtggcgga agtggtggag gtggangtng 180

ccngnggnca gggtgggggn tncggatatg gccatggaag tggtgaagga tacggttctg 240

ggtctggctt tggtggtggt gctgctggcg gcggcggtgg aca 283

<210> 35612
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G11

<400> 35612

accgaccgac gttccaagaa gcgaaacgaa acgataatga tgatgatgat gggagagaga 60

gcgcacgcgc ctccgtggca gcgctcgccg gcggccagcg gcgtcacgga cgcggacgac 120

gcgtctccgt acgccctcct agcggcgctg cagcattacc tgccgtcgaa cgaggtggcg 180

gcgtacgacg aagacgacga ggaggcggcc ctggcggcgg cgaccgccgc cgtcgacgcg 240

tacgcctgcg acgagttccg gatgtacgag ttcaaggtgc ggcggtgctc gcgcgggcgg 300

aaccacgact ggacggcctg cccctacgcg cacccggggg agaaggcccg gcggcgcgac 360

cccaggcggt accactactc cggcgccgcg tgcccggact tccgcaaggg cgggtgcaag 420

cgcggcgacg cgtgc 435

<210> 35613
<211> 289
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-001-Q1-K1-G12

<400> 35613

cccacgcgtg cgcccacgcg tccgcagaca ccgctacaat ccactagcta agcgcgccat 60

ggcagagnnc gctcanggtc accaccgcga ggcctccgac gccggctgcg tccgtgccgt 120

cctcgccgag ctcatcctca ccttcctctt cgtcttcgcc ggcgttggct ccgccatggc 180

aacagggaag ctggccggcg gcggctggga cacggtagtg ggcctgacgg cggtggcgct 240

ggcgcacacg ctgggggtgg ccgtaatggt gtcagcggtg ctgcacgtt 289

<210> 35614
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G2

<400> 35614

tcgcccacgc gttcgagcgc ttgcctcatt tgaagattgt aacctcagag attgatagtg 60

gattgaacga tgaatatcgt gtcataccag gacttggaga gtatggtgat cgatacttcg 120

gcacagacta accgatgact gatgctgtcg tagttagcag tgtgaaaagg tactcaaatt 180

agagctgaca ttaccgtggc agatatactg gtgtttggtt gctttatggt atactggaag 240

acaaacgtgg ataggtttct ggtaggtgct gaaaccgtga ccgtgtggtc ttgtccatta 300

tcatatgttt tgataccaca aaccgttggt tgtgaggcaa atttgatttt ttttgcattt 360

tgaggctcct agctgaagtg cctgcttcta gtcacacaat actgttatac a 411

<210> 35615
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G3

<400> 35615

tcgtccacgc gtccgtccac gcgtacgctc ggatatcatt tactgatgat gtagatccat 60

ggtgggtcgc tgggaggatt gtcgagtgct cttggaacaa ggaagaacag tgatgggcat 120

gtatgcgtat tagatctgat aaatcaactc caaacgacat caacacatac cggaaggtga 180

tgaggagtat tacagataac attaccgagg agaagcttct cgaatagact gatgtgataa 240

cgctcctgcc gatgtatgtc gataggatga atgttcctgt tcatacagag atggcacatc 300

atcagcgaag attgtcacca cagtgctagt ctcgttgcta gagtgctggg tcgctctcct 360

agccagcggc tggcttatgt agctgtgt 388

<210> 35616
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G4

<400> 35616

cacgaaaaag atgaaaatct caagagaggc tatagatgcc agcgggagaa tctcaaacgc 60

agaggatatt ctgacaatag aagtaaggcc tggttggaag aagggaacaa agattacatt 120

tcccgacaag gggaatgaag ctccaaacat gaaagctgct gatattgttt tcatcctcga 180

tgagaagccc catgatgttt tcactcggga tgggaatgat cttgtggtga ctgagaaaat 240

ctcgctggtg gaagcgctga ttggatatac tgcacgtgtc actacgcttg atgggcggag 300

cctatcattg cccatcaact cgataatcca tccgagctac gaagaggtag ttcctagaga 360

gggcatgcca atacccaagg acccctctaa gaagggaaat ctgcggatta ag 412

<210> 35617
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G5

<400> 35617

atcgcctcgc ctcgccgcca gcgcaactcc agccctggcc gggatctctt tcaccccggg 60

ctctctctcc gccgcttcgc tcccccgtct cggggcctgc ctcggatgct cccggcctcg 120

catccgctgc tctacgcctg cgtcttccgc gacacccacc tcgtcgccga gctcgaccac 180

gcccactccc actcccagag caccgccacc ttcgccgacc ccgtcgcttc cgacgccccc 240

tcccccgccc ctgacgacga cctcccggcg ctcgccgctg cgctcgtcgc cgccgctccg 300

ccgcaccacc gtcacctcac acacacagcc ggcgggcgtg cgcacgcgct gctcctgtcc 360

ccgccggtcg cactcgccgc cgtctcgcgg gcgcccc 397

<210> 35618
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G6

<400> 35618

ggtgttcgga cgtggcatct atttttgacg gaagctggtg tgaattgtag atcgttgtgg 60

tattagatta cagtatttaa actgctagtt tcctggtttc aaagtttttt caccacaaat 120

actggaggtg ttcatgcctt gcatgatttg tacatcttac catgtagtat gaagcgatcg 180

aatcgtaggt gacattacaa acgcagagag gcatacttat cagatagtga gttacaaaag 240

tgtttttggc atgaccaagg atgcattcta ccgtctagcc aaattggaag caagaactac 300

agaagcgaaa agcaaatcta tggtaaagag aacacgcctt gtctcatgcg cttgctacaa 360

aatg 364

<210> 35619
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G7

<400> 35619

gtgtgctctg acagtgagat ggcgagcgtg aaggttttcg ggtcacccac ctcggcggag 60

gtcgcccgcg tgctcatgtg cctcttcgag aaggaggtgg agttccagct gatccgcgtc 120

gacgcctacc gcggcaccaa gcgcatgccc cagtacctca agctgcagcc gcaaggcgag 180

gcgctcacct tcgaggacga gagcctcacc ctctccgact ccaggggat cctccgccac 240

atctcccaca agtacgcgaa gcagggcaac ccgtacctga ttggcacggg cgcgctggag 300

cgggcgtcca tcgagcagtg gctgcagacg gaggcgcaga gcttcgacgc gcccagcgcc 360

gagatggtct acagcctcgc cttcctgccg cccaccctgc cc 402

<210> 35620
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-001-Q1-K1-G8

<400> 35620

aaaaatcttc atttcacata tagaattttc tttctttcat ttcattgcag ggctttcttg 60

ttggttctta tgggctgacg tgggcactca ataactcaag caaagtcctt aaattagcaa 120

tccttaacag tcctcttaca gtttcttctc cagtccctgg attgtttcag cagctaaaat 180

ggccactctt tggtgaattt acttgtcaaa atgctgtttt ggctgagcgt ttcattgaag 240

cagatatatg ctgaaattgg aaaaggctga tgtatacagg ttaccgtatc tatccagtgg 300

cgctcctgga ttcgctttgc ttgaagctgn caggaagatc aatttcaaga tgtactaaat 360

agaattttcg ccggattttt gtccaaacgt tgggaaaaac 400

<210> 35621
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-001-Q1-K1-G9

<400> 35621

tccctgtgat cctattgccc aaggagaagc ttgttgacac caacggcgca ngtgacgctt 60

tcgtcggagg ctttctctct cggctggtcc agggcaagag catcgaggac tgcgtgacgg 120

ctggttgcta cgctgccaat gttatcatcc agcgcccagg ctggacctaa ccaaagaagc 180

ctgacttcaa ctagtgcaat actcaggcac cgaggcacgt tacgagcggt tcggcgtgta 240

cactcccctg tatcctttcc ggtccggcca atttttttgtc gccgtgatat ttgttcagca 300

actatggacg acgtcgcctc tgttctgtac gaggcatggt ttgccatcat tattctgtta 360

gcttcggcga tgcttgcaat gcg 383

<210> 35622
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F4

<400> 35622

tcgcacgcgc ccgctcctct tcgccctcgt cttcctccat cccacggtcc cacctgtccc 60

tctcaccgcc tcgttatttt ttcgccccca tctttgaacg ccgggactcc aactccaccg 120

ctcctccctc ttcgttccct ccgatcccgc ccctataaat ccagtcgcct cagccgccac 180

agcgggccgc aagcacgcat ccacacagct cactgctgct cccgtcttcc cgtgtcctgt 240

cgtgctcccg tcgccggggg cggaagggtt cgcgaggccg gcgggcggtt agggatttct 300

ccggagtccc gcgatggcga agctgtacgt gcaggcgttc ccgcccgcgg atctgaacaa 360

gaacaccgag tggttcatgt atccgggcgt ctggacgacc tacatcctca ttg 413

<210> 35623
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D9

<400> 35623

acactgtccg tggtggtcag cgctacgcta ctggtctttt gtacttaact gatgtaccag 60

aaagagggga aacggttttc cccttggctg aggagcccga tgatgctaaa gatgcaacct 120

tgtcagaatg tgctcagaaa ggcattgcag tgagaccacg gaaaggtgac gccctccttt 180

tcttcaacct taacccagac ggcaccaccg actcggtgag cctccatggt ggttgcccgg 240

tcataaaagg cgagaaatgg tcggctacga agtggatccg tgtggcctcg ttcgataagg 300

tccatcaccc acagggcaac tgcaccgacg agaacgagag ctgcgcgaaa tgggcggccc 360

taggggagtg cataaagaac ccagagta 388

<210> 35624
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E1

<400> 35624

gcgttcgtgt gtgctgtagc atgtcggcat cctacagtgc tttagagttt atagatagat 60

ggcctaccgt tattaatacg agatgttgat cagaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agtaaaaaaa aaaaaaaaaa 180

aaagaagaaa aataaagaaa gaaaaaaaat aaaatacaca gtgcatgcaa aaacaaa 237

<210> 35625
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E10

<400> 35625

agataatcct gatttgaggg acagagctta catatattgg cgacttctgt ctactgatcc 60

tgaggctgcg aaagatgttg ttttggcgga gaaacctgtg atcagtgatg actctaacca 120

gcttgactca tcacttcttg atgagctgct agcaaacatt tctactcttt catcagttta 180

tcataagccc ccagaatcat ttgtcagccg tgttaaggct gctcctaggg ccgatgatga 240

agagtttgct gatacagctg aaacagggta ctcggagtcc ccatcccagg gtgttgatgg 300

ggcatcacct tcatctagtg ctggtacttc ttctaatgta cccgtgaagc agctggcggt 360

tgcatcccca cctgcaatgc cagacctttt aggtgatttg atgggtatag ataatgctat 420

tgttcctgtt gatgaac 437

<210> 35626
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E11

<400> 35626

cccaacgaat ggaggaatgg cagagagatc ttctttcgtg ctttctggtg tttctcgcaa 60

tgcgtagagg ccttcaggca ttgtcgtccc gtgttgtcta ttgatggtac ttttctgctt 120

gggaagtata agggcacatt gttggttgcc atatcatgtg acgcggacaa cacattggtt 180

cctttggcat ttgctttggt ggagagggag aacagagaga gttgggcttg gttcttgcga 240

cttgttcgga tccatgtcgt gggccctggt cgcgaggttg gtgtcatatc tgacagacat 300

cagggtattc ttaatgcagt gcaagagcag attcctggct acgcacccat gcaccacaga 360

tggtgcactc gacatctagc agaaaatctt cttcgaaagg atcgtagcaa ggctaatttc 420

ccccttttg 430

<210> 35627
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-001-Q1-K1-E12

<400> 35627

cggacgcgtg ggttgtcttg gtgctaatca gcctttagaa gttaccatca agacatcttt 60

ggacacttgg atctaacact tagagctttg ccttcgcata taggctctag gtttgggttt 120

tcgttttctg ctagctttct tctactctac cactgtaagt tttcagtctg atcggtccaa 180

aatttggtgt gtattggtta cgctgtcctt catcagcctt cactttgcat gggttgacct 240

tagagaagac gtgttcaaga ttttgttgtc gcaaaagcat gggaatagca tacatagctn 300

tgagaggagt ctccagtgac tttggtgttg taacatccaa agacactcct ggtatacata 360

tatgagtcct ggtttttact atacaactgt tctgaaat 398

<210> 35628
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E3

<400> 35628

cttggttcgt tcttgattct tggacgaggt gggatttgga gagccaaggg cggcgcggca 60

gcggcgggtt tctcggtcgg actagattgt ttccatcgag atggtgccat ggtgggcggc 120

ggagggcatt cgtcgatgga ccaccctggc gccaaggacg atggagacgg ggaagaaagc 180

cagtacttct cggacgcgga ggaccggtcg tggccgtcgc actcgcgcca cgactccacc 240

gtctacgagg actacgtctc gctgtgcgtg tccgcccgcg cgagctccgt cgacgccgac 300

gccgatgccg acggcgaggc cgtcagacaa cactgcagga agtcgtcgtg cgtgtcagag 360

ggctcgctgg acgacgttga cctggaggcc ggactgagcg ag 402

<210> 35629
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E4

<400> 35629

ctgacatcac cggtgggggc tggggaggag agggagagcc ttctttaaga tcagtaggtc 60

agcacaccct cacccgtcct cattgccccc ctctcacaca cgcacacaca ctctctctct 120

ccccattgtg tcactgtaac tagcaattga gctcttaaaa ttttggttga ggtgcagtag 180

caaggcacac tactacgatc tacaaacaag atgatcagtt gatgcccggt gtcttcagga 240

tcttttcagg ttcgcgaggt cccattttgc ttctcccccc gggcttgcag ttgcgtttga 300

gtgcacctct gaggctttgg ttggccctcg cgctgcgtac ttaagctctc cgccccgtcc 360

acggcgttgc atctctcatg gcactcggtg tctcctgata gctgctgg 408

<210> 35630
<211> 154
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E5

<400> 35630

tcgcccactc gtccgcccac gcgttcgcat gatttggctc cttattttct gttgttgtta 60

cagcccaatt ctttggagga ataaagtttc tggtgtattg agaggtgtct ttctgaaata 120

gggagcatat cagatgcaca cgtgtctttc gtgt 154

<210> 35631
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E6

<400> 35631

ctcaggccta tgaggtcctc agtgatcctg aaaagcgaga gatttatgat caatatggtg 60

aggatgccct caaggaggga atgggaggtg gtggagggat gcacgatccc tttgacatat 120

tccagtcatt ctttggtggt ggaagccctt ttggaggtgg tggcagcagt aggggcagaa 180

ggcagcgaag gggagaggat gtggttcatc ctctgaaggt ttctctggag gatttgtaca 240

atggcacatc gaagaagctc tctctgtccc gcagtgttct ctgctccaag tgcagtgtta 300

agggtacaaa gtctgaacct atatagaggt gcgctggttg ccaaggttct ggctttaagg 360

tccaaatccg gcatttggcg cctggaatga tccatcatat gc 402

<210> 35632
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E8

<400> 35632

gtggaatctt ctgcaacaac aggagcaaat aaacaaacaa gtgaagatga cacaaagagt 60

ccatattcga atccttcagc acctgcagca gaaagcaatc agctgcctag ggatactgat 120

ccatcacctg ggcagccttt gcaacctgga atgtcatcat ctggtgttgg tgttatcggc 180

cgaagaagtg tatctgatct tggtgcaatc ggagataacc ttactggaac ttctgctagt 240

tctggtcatg atcagcttta taacctgcaa atgctagaag ctgcattcca caagcttcca 300

caaccaaagg actctgagcg tgctaaaact tacattccgc ggcaccctgc agttacccct 360

gctagctatc cccaagttca gccatc 386

<210> 35633
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E9

<400> 35633

ctgaggcaag ttcgacatgc ctgaacgcat gtagtgaggc tcaagaacaa gaatccgcac 60

cttcgtgccc ctgaaccaat acttatggta tttgggtacc atctgatgtc ataaccaaag 120

agcaacatgt taacagatgc tttgaaaaac tgtaccgtaa ctgtcggatt cttttaagta 180

cattatagta aagacttgag cgttagctca aaatga 216

<210> 35634
<211> 327
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-001-Q1-K1-F10

<400> 35634

cttttccagc tcgtcactgt gccgctcgtg tccttcactc ccggtccgnc caaccaatgg 60

tccgtcgatc catccaccac caccaccccg ctgcggcgat gtgcggcggc gccatcctct 120

cgggtttcat cccgccgtcc ggggtggcgg cggcggcggc ggcggcggcc aagaagaagc 180

agcagcagcg gtgccgtgtg actgcggacc tgctatggcc ggggcccggc agtaagggag 240

ctccccagga caaggaggag gacttcgagg ccgacttccg cgagttcgag cgcggcctcg 300

gcgaggatga cgtggacagc gccggcg 327

<210> 35635
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F11

<400> 35635

ctttaggaac atttttgggg atagggactt tagattacga gatgttaagg ttgcactcga 60

actatcattt atggaagcag ttcaagggtg cagcaaaacg gtcaccttcc aaacgtctgt 120

aacatgtgaa atctgtggtg gagccggtgt gcctcctgga accacacctg aaacatgtct 180

atcttgcagg ggttcaggat ttatattcat gcaaaccggg cccttcaaga tgcaatcaaa 240

cttgacaaaa tgtggtggtt ctgggaaaac tgtgaaggaa ttctgcaagg catgcagagg 300

aaacaaagtt gtgcctggaa ggaaatcagt ccgccttgac atactgcctg gtttggataa 360

tgaggatacc ataaaggtgg ttcgatcagg tggagaagac ccagatggcc gtccaggtga 420

tctttatgtg 430

<210> 35636

<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-001-Q1-K1-F12

<400> 35636

cggacgcgtg ggcggacgcg tgggcaagcc cgcatgcaat caggagccgg ggagatgtgg 60

agacgccggc gacgaggcga agaagaagga ggcggcgctt gcatcaagca ggctcctcga 120

cccggcgttc aagccctcca aactatccca ggaccggctc gacaagttta aggaattaca 180

caagaaacgg ttacagataa ctgaaaagcc gaagtataaa agaaaactga aaggaaccgc 240

tgggagaagt accaaagtaa ccagtgatta caaattcact aatacggatg catctgctga 300

tagttctcca agagatgtac atcatacgtc atcaattaca ggaatccaaa gggatcctgc 360

atcaggcctg tcctcgagga acaaaagaaa gctacattgg gggctggata ttaaaggacg 420

atggngaagg aaggcaaa 438

<210> 35637
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F2

<400> 35637

tcgggcggag gctgctgctc ctgctggtcc cgaggagact cctgcggtcg agcaggacgc 60

agccgccgag gaggaggctg ctgctgctcc tactgctggt gccgaggagc ccgccgcggc 120

cgagcctgtc gccgaggcag aggctgctgc tcccgaggag ctcgccgcgg acgagccgga 180

ggctcctgct cctgctcctg ctggtcccca ggagccggcc gacgaggcgg aagctgctgc 240

tcctgaggag cccgagaagg ccagccagtg atgccgtgcg cacgc 285

<210> 35638
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F3

<400> 35638

tcgcggacgc gtgggcggac gcgtggggac tgcggcaagg agcaggccat cgacatggtg 60

ctcacggact actgcatgcc agagatgacc ggctacgacc tgctcaaggc catcaaggcg 120

ctgaacccgc tgaagccgat ccctgtcatc gtcatgtcgt cagaagacga gccccagagg 180

atcagccgat gcctgaacgc ctgcgccgag gacttcatcg tgaagcccct gcagagcaag 240

gacgtgcagc gcctacggaa ctgcttcaca gtccggaggc ccagcaacaa tggcggcgcc 300

acgttgccgt gcgaggagaa cgccgtggcc aagtggagta acaacaagct ggcgccctcc 360

gccggcgcct gcgccggcgc cagcgcca 388

<210> 35639
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D8

<400> 35639

agaacctgcg catccgcaaa ctcatattta ccaacggaga catggtccac tccgggagag 60

ccctcaagag ggtgggcctg gaggactgct tctaggggat catctgcttc tagaccctgt 120

acccgccgtg cccgtcgcat ggagaccagg atcccgagat cttcgacatc gccggcacac 180

ttcgtccgct ccggcaccgt cgactagctg accaagaccc tccgtcctgt gcaagcctaa 240

cgtggacgcc atggatgagg cgctcatgat cgccaacgtc aacccgcaca atgcgatctt 300

cttcgacgac agcgttacgc aacatccatg ccggtaagca gattggcctt cacacggtgc 360

tggtgggcaa atc 373

<210> 35640
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C12

<400> 35640

ctcaagcttc agtcgtccat ggctcagcag caaacaaatc ctgaagaggt ggtcctcggg 60

caggaggtcg gggccgcgag ggtggccact ctcaaccgcc cgcgccagct caacggcatc 120

tccgacagag tggtgtacct cctcgcacag ttcctggaga aatgggagaa ggatgagaac 180

gccaaattcg tcatctttaa gggtgctggg cgtgcatttt ctgctggtgg ggacctaaag 240

atgttttatg aagggaaatc aaatgattcc tgcctcgagg ttgtgtatag aatgtattgg 300

ctttgctacc acattcacac gtacaagaaa accatggttg ctcttgttaa tgggcttgtc 360

atgggtggtg gcgctgcaat ggttgcgcca ctaaagtttg cagttgtcac agagaaaaca 420

atctttgcta ctcctg 436

<210> 35641
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C3

<400> 35641

gaccgacata agtgcactgg tgtacgatga ttcacttcac gctttcctgc cgtatgaccg 60

cgagtggata aaacagaagc tgtttcagca cctgaagcgg atggcgcagc agtagggtat 120

ccagcaccgc tggcttttga cctgcatctg gttaccggtt cgggcttgga ttcaaatgcc 180

cgggatgtgt gtatagaaat aagacctgta tcccgtgttt gatgtagaac atgtggacat 240

ggtgttgctt ctgaagacga ttttggctca acaatgcaga tttcatgttt gtc 293

<210> 35642
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C4

<400> 35642

gactcgcgta cgtagctcat caagtatctt ctcagggaga tccttcggga gatcatacag 60

atgctcaaat gacttgagtc atgacgtgag acctgaggtc atagattgtg tctgcgatat 120

tggaggcgac atactctatg acgttcgcta tactactgca gattgcatag ttcaatgcaa 180

cttacattac gacttgtctc attaacttgc gc 212

<210> 35643
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C5

<400> 35643

cgttcaagaa gctcgaggag gtgtatggga gctttgacgc gccgtctcag aagaagaagg 60

gctttgttct gccgaggccc aagatggcca acgctgacct gggcaggatt atcaactctg 120

acgaggtgca gtctgtggtt aagccactca acaaggaggt gaagcgcatg gagaagagga 180

agaacccgct cacgaacatg gctgctgtgc tcaagctcaa cccctacctc ggcactgccc 240

ggaagatggc cacccttgct gaggctgccc gagtcaaggc ccggaaggag aagcttgatt 300

ccaagaggac caagcttacc tcggagactg ccaaggtcaa ggctgccggc aaggcgtggt 360

acaagaccat ggtctcggac agtgactaca ccgagtttga g 401

<210> 35644
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C6

<400> 35644

gacgaataat ctcttcttca cctcactaac accagctagc aactctttct ctcctgcaat 60

aatggccgct cgctcctcct cctcccagcc gcagctggtc gcggcggcgg cggtcctggc 120

agcggcgctg ctgctgctgg cggcgggggc cgggacggcg tcggcggcgg tgagctgcgg 180

cgaggtgacg tcgtcggtgg cgccgtgcct cgggtacgcg atgggcagcg cggcgtcgcc 240

ctccgggggg tgctgcaacg ggg 263

<210> 35645
<211> 126
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C7

<400> 35645

cccggtcgcc cactcgtccg acaaaaaccc tgactcacct tataaactaa tcgcacctct 60

ttctatcgga gggctttcta tggctactcc tactacacac cattcttgcc aggattataa 120

ctgtca 126

<210> 35646
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C8

<400> 35646

cgacgagctc cggcggtacc ggagggtgca ggcgctgctc aagaggctca acaagccggc 60

gctgcggagc atccaggcac agccccgacg gcgacctcat cgactgcgtg ccggcgcacc 120

tgcagccggc cttcgaccac ccgaggctgc gaggccagag gccactggcg ggcccgccgc 180

cggcgaggcc caaggggaac cgcctccgcg acccgataag gaatgacacc gcggaggccg 240

tcggcgtcca gcagctgtgg gcggcgtccg gggagtcgtg cccggaaggg tccgtgccca 300

tcaggcgtgt cacggaatcg gacgttgctc cggccagctt cgt 343

<210> 35647
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C9

<400> 35647

ctcccccatc cggcgccgcc ggctcctcct ctagctccct ccttaccccg agctttaagc 60

tcgtgctacc tgcctaccta tccgtaggga gagagagaga gaggggagaa ggttcggtcg 120

gtcggtcggg ggctctcgga tctcgccgct gcctccccgt ttcttcgttg ggatctcgct 180

cgcttcgcgc catggccgcc gtcgcgacgc caccggcccc cgcgcccgcc gcgccggcac 240

cggcaccggc accggctgct gctccggctc ccgtcaccgt cgcccctgcc gcggaccaaa 300

ccacggatct gctgcagaag ttgtcgctgg attcgcagcc caaggcggcg ggtgcgacag 360

<210> 35648
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D1

<400> 35648

agagaatcca agaactgaaa ctacattgtt tggagatagt tcatcggaaa tccttgatga 60

gcctcagatg gtgatgtctg ctgaaccttt ccatgcacct gcttatttga acttggaggc 120

tggaaattca agcccaacgg ttcatgtcga gctaacaaat tccgatgaga aactggccaa 180

tcttgcagaa gacaagaatc ggcgactttc agatgcaagc cagttaagaa caggttcaaa 240

cccaatggtt gatgttgagc taacaaattt cgatgagaaa ctggccaatc ttgcagaagg 300

caagaatcag cgactttcag atgcaagcca gttaagaaca ggttcaaacc caatggttga 360

tgttgagcta acaaatttcg atgagaaact ggccaatctt gcag 404

<210> 35649
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-001-Q1-K1-D10

<400> 35649

nncgccacgc gtgcgggtgc gctcatcttg gtatctgttc cagcgctcgc ttctccccgt 60

ccggcgcgtc cttcctttcc ttgtctagcc gaaggccgaa gccactgtgc gcgcgagcgc 120

gacgcgagag gtagctgctg ctgtgcccgg cgcgcgcgtg cgtgcgacga tgtcgtcggc 180

ggtggaggcc gtctcctgcc ccaaggtcga cgtccccgcc ggcccggagc cgggggagcc 240

ggccaaggaa gcggcgccgn ccgcggagca ctgcgacacg gcgcccaacg gcaagtgcgc 300

gccgcgttgc cacggngagg aggaggacga cgacgacgag gaggaggagg aggaggagaa 360

ggcccccaag gccatcgacc tcggccccat ggtcagcatc aaggagcagc tcgagaagga 420

caaggacgac gagagcct 438

<210> 35650
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D11

<400> 35650

atgtccttga ttatcggtat ctatgatgag ccaatgtact ccagggcaat gcaatatggt 60

ggtggagagg ctcggcgatt acctgatcga acagggcttc taagtttgtc ataatgctat 120

tttggtcatt gggcacttaa gtttgcacct catttggttc tgtaatatgt gggcttgtgc 180

atgtgcttgg cgtattgcat gcagtgaata atttatcttc gcgttgggtt ggtgacaatg 240

ttgggaacgg atttgaattg gggtttatgc ttgccatctc ctc 283

<210> 35651
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D2

<400> 35651

agttactggt aatggcaacc acaatctctc ctatgcaggg agagatcttc aactgcaaga 60

gacctactta aaggtgcttc ttggaaatag cagtcgaagc agcagtacca atgcatcaag 120

tacagtcacc gattcactgc taccctcact agttttaaat ttatcatcac cagaagtaga 180

agacgcatca aagttttcag ctcctgctgt ggtggaaaca taattggttt aaacgatcac 240

tgccttcaaa aacttgtgaa ttaagaacat gtgatttcac cctcagtcat gaaaagaggg 300

agcgtatgag gaggagagct gctgtgagat cagctattgt ccagcatctc cttgtcacca 360

ccatttttg 369

<210> 35652
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D3

<400> 35652

agttactggt aatggcaacc acaatctctc ctatgcaggg agagatcttc aactgcagga 60

gacctactta aaggtgcttc ttggaaatag cagtcgaagc agcagtacca atgcatcaag 120

tacagtcacc gattcactgc taccctcact agttttaaat ttatcatcac cagaagtaga 180

agacgcatca aagttttcag ctcctgctgt ggtggaaaat aattggttta aacgatcact 240

gccttcaaaa acttggaaat taagaactgt tgattccacc cttagtcatg aagagaggga 300

gcgtaggagg aggagagctg ctgggagatc agcttttgtc caacatatcc ttgtcaccac 360

cattttgaa gactagcaga tcaagcacag ttcatgcaaa ggaa 404

<210> 35653
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D4

<400> 35653

cccacgcgtc cgcccacgcg tccgtccacg cgtccgagaa ggacggccgg ccagtttagc 60

ctagccacgc tcgctgtacg tcctcaatcc tgattagctt caaaccgcca tggccatggg 120

gctccccggc ctccgctgcc accgcctcct cgctcgcggg tcactccctc cactcggtcc 180

cgccctctat cgcaggcccc tggagcgaac ctcggctctc cgctactcct ccctccaagc 240

tcaagctggg gacagtattg gggaggaggc cctgcgcatg ttccttgagg agaggcaact 300

gcacggcgat ttcgtcacca aggtctctga catggtctgg aggaggaatg gcgccaatgt 360

tggtgcggct g 371

<210> 35654
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D6

<400> 35654

ctttcttgaa tgtcagtttg ggactttggg tacctctagc tggtcatgtt tgggcttttg 60

gttacctgca ccgatgtgat atgttgcatc catttacata cacaagcaac tatgcacgct 120

ggtggtgagg tgtattgaac tgtccttgat tattgaggcc tagtgtacgt tgtgcagttg 180

tttgtccagc ctatggtggg ttgtctacat ctccatgaaa tgagatggag agctgatgga 240

taaaggataa tgttggttgg acatatggtc ataattacat aagtttgatt aggctcacag 300

agtcacagtg atttgaacta ccgtgacttg attgacatat cttcgggtat gtgattccca 360

aagtagccat tgggt 375

<210> 35655
<211> 430
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C11

<400> 35655

gtgctcggcc tgtcagatgg ctgtcgtgtg gatttagaac cagctccgcg aaaacaagac 60

caaggagctc atactgcagt acgctaacca gctgtgtgag cgtctgccga gccccaacgg 120

agagtcaaca gtcagctgcc aggagatctc caagatgccc agccttgcgt tcaccatcgc 180

aaacaagacc ttcaccctaa cacccgagca gtacattgtg aagctggagc aaggaggcca 240

aaccgtctgc atcagtgggt tcatggcgta tgacctgcca acggcgcgtg gtcctctctg 300

gattcttggg gacgtcttca tgggagctta ccacacggtg ttcgacttcg gcaacgacag 360

gattggcttc gcggaatctg catgagtgtg gagaccactc tgctcttcat gcataaagat 420

accctatgta 430

<210> 35656
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D7

<400> 35656

agaacctgcg catccgcaaa ctcatattca ccaacggtga catggtccac gccgtgagag 60

ccctcaagag gctgggcctg gaggactgct tcgaggggat catctgcttc gagaccctga 120

acccgccgtg cccgccgcag ggagaccagg agcccgagat cttcgacatc gccggccact 180

tcgcccgctc cggcaccgcc gacgagctgc ccaagacccc cgtcctgtgc aagcctaacg 240

tggacgccat ggaggaggcg ctcaggatcg ccaacgtcaa cccgcacaag gcgatcttct 300

tcgacgacag cgtacgcaac atccaggccg ggaagcagat tggcctccac acggtgctgg 360

tgggcaaatc gcagcgggtg aaaggcgcgg accacgcgct 400

<210> 35657
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A6

<400> 35657

aagggcatgg acagctgaag agaacagaca tggtgacctc cttaacaagt acatgtacct 60

tactggacgg gttgacatga aacaaattga gaagaccata caatatctga ttggttccgg 120

aatggatcct ggaactgaga acaaccccta cttgggtttc ctctacacat cattccaaga 180

aagggcaaca tttgtgtcgc atgggaatac tgcaaggcat gccaaggagt atggtgatct 240

caagctggcc cagatatgtg gcacgatagc agccgatgag aagcgccacg aaacagccta 300

caccaagata gtcgagaagc tcttcgagat ggaccctgat tacacagtgc ttgcgtttgc 360

tgacatgatg aggaagaaga tcacgatgcc agcccatc 398

<210> 35658
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A7

<400> 35658

gaggctcgtc catcgtacaa acatactacg taataacacc ggtcgatctc ttcagttgcc 60

tgcgtgttcg taggcaaggg cggcgtcggt ggaggcagca gcggcaagaa gcccggcggc 120

accacggtgg gagttgggaa aggggagtg ggcgttaacg ttaaccctac caaacccggc 180

ggcgccggta caaccgttgg cgttggcaaa ggtggcgtct gcgtcggcgt caatcccggg 240

tacggcaagc cgggtggcac cacggtgggc gttggcaagg gcggggttgg cgtccacgtg 300

aacccgggca agaagcccgt ccacgtcccc gttggccctt tccaatacga gtacgccgca 360

tcggatacgc agttgcacg 379

<210> 35659
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A8

<400> 35659

cccactcgtc cgtgcagaaa cttggattgc aaccaacaag ttatacatat gacggtttta 60

ttaaaaccgt gatagctggg aaaggaattg catatgccag catagtgatt aacgccatgg 120

agagaagggg cattgaacct tacagtgata cacttgctgc tctctcagag ggtcatagca 180

atagtttaca gttggatttg gctgaggagt ttttggaaag aatttcagag ataaaaccaa 240

agcatatagg ttcctttaat gctttgcttt ctggatgtgc gattatgaat gaaccagaaa 300

gagctgtccg catactagct aaaatgaaac atgtgaacat gaagccaact ctcaggacat 360

atgaactttt gttttctctg tttggaaatg taaatg 396

<210> 35660
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A9

<400> 35660

gttgctcagc tctcccgtcc gctgctgccc tccgtgcggg tccagatccc ggcaccaacc 60

gatccggcgc cctacagcat ggccgggggcg aaggcggcgg cagccctggc tcttgcgctc 120

gtgcttgcgc tcgcggtggc caactccgag ggcgactccc tctgcgagct gcgccggagc 180

ctgagggacc accggcggcg ttctgcagag ctgggaccac acgctcgtca acccgtgcac 240

ctggttccac gtcagctgcg accgcgacta ccgcgtcaac cgcctagatc ttggcaatta 300

gaacttgtct ggtcatctgg tgcctgagct tgtgaaactg gatcatcttc agtatctgga 360

ac 362

<210> 35661
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B1

<400> 35661

tcgaaaaaaa atatatgcaa aaaaaaaaaa atacataata aaaaactaaa aaaaaataaa 60

aagggaggct agttctaaac cgcaagct 88

<210> 35662
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B10

<400> 35662

cccacgcgtg cgagtttata aattgtcaat cacatttatt aaaagagact aaaagtaagg 60

tttcaggttc tatttctatc catctttaat taagggctga aacgatactg tcttgattcc 120

taattcacct aatattccta gaccaagaac gactcgggtt aatggtcagg gatgccaaat 180

tgtttcagta aaactaatga agctcgtatg atgattatgt acctacttga gaacaaattg 240

tctaaaacat atctgctact acacttcaat agaacaattg gtcacacaca agaagttcaa 300

atcagaaaat gccagcttgc ggtaactccg gtaggttctt cgatggtttc cggtaagggc 360

tgaccatgga gaagagcaca gtggtggtca gtgtccctgt tgttgtcatg gccgagactg 420

ctgagaccga ctacaac 437

<210> 35663
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B11

<400> 35663

cgctaagctc cgagaagaat ctagaaggag gagcttcctt ccgagccaag gcggcgaggc 60

ggataagggt ctgtcgaggg ggcacaagag catgcggctg caggacacga accagagcca 120

cgtgcacgcc gaggaatcgc tgcccgttgt ggccgaaaac ggggtgacaa tggcggggaa 180

cgacggcgac tcgcggctgt tcgtcgacct ggagcccgtt ccggccatca gcaagcggca 240

cggcggcagc gtcggcggcg accacgcggc gccgtgcgcc agggctagga ccatgtccac 300

cagcttcaaa gagccgcctt gtgtcgccga acaacctcct ctctctggcc ccgtgcagct 360

cgcggcgtcc accggcttct cctgggccaa gaagccccgg cccgacgcca cgacggcggc 420

ggtaactgtg ac 432

<210> 35664
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B2

<400> 35664

cccagctcgc tcgtcccagc tgatcaggtc gagcacctag tagcgacctg ctcgatcatc 60

agtgtagagt gtcggtaggt gtctgtctct cttggtggct ggttgcaacg gtcatggcga 120

cgtcgtctcg tcgggtgccc ttgctgctgc tgtgcctggg cgtgctggtg tcctgctcct 180

tcgcggcggg cagcttggac caggagctgg acatcacgtg gggcgacggg cggtgcaagg 240

tccttgacaa cgggcggctg ctgacgctgt cgctggaccg cacgtccggc tccgggttcc 300

agtcccggca cgagtacctg ttcggcaaga tcgacatgca gctgcggctg gtgccgggca 360

actccgtcgg caccgtcacc gtctactacc tgtcg 395

<210> 35665
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B3

<400> 35665

tcgcggacgc gtgggccaac ccagctcgct cgtcccagct gatcaggtcg agcacctagt 60

agcgacctgc tcgatcatca gtgtagagtg tcggtaggtg tctgtctctc ttggtggctg 120

gttgcaacgg tcatggcgac gtcgtctcgt cgggtgccct tgctgctgct gtgcctgggc 180

gtgctggtgt cctgctcctt cgcggcgggc agcttggacc aggagctgga catcacgtgg 240

ggcgacgggc ggggcaaggt ccttgacaac gggcggctgc tgacgctgtc gctggaccgc 300

acgtccggct ccgggttcca gtcccggcac gagtacctgt tcggcaagat cgacatgcag 360

ctgcggctgg tgccgggcaa c 381

<210> 35666
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B4

<400> 35666

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggct tgcagctgca 60

cccttcactc agtcttagtc tcttattagc tctaggctct agctagccgc gccactcctt 120

cgtgtagcca tcagccttct catcgccacc aatggccact gccgaggtcc agaccccgac 180

cgtcgtggcg gccgaggaag cgcccgtggt ggagaccccg ccgccggccg tcgtgcccga 240

ggagtctgcc cccgccgagg ccgaggccga ggccgaggct gctgctcctg ctgatcccga 300

ggagcttccc gcggccgagc agcaggcagc cgccgaggcg gaggccgcgg ctcctgctgg 360

tgccgaggag cccgtcgcgg ccgaacc 387

<210> 35667
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B5

<400> 35667

gggttttggc ctcgccgcgc acgcctcctg aagcttctag acgttcgagg aggaggagag 60

gctcccgccg acgtcgcagc catggcgtcc accaaggtgc agcgtatgat gacccagccc 120

atgaacctga tcttccgttt cctccagagc aaatcgcgca tccagatctg gctcttcgat 180

cataaggacc tcctgattga gggtcgcatc atccgattcg atgagtacat gaacttggtc 240

ctcgaagatg ctgaggaaat caacgtccag aaaaacacta ggaagacact gggccggata 300

cttcttaaag gtgacaacat aactctgatg atgaacagtg gcaagtggaa attcttatgg 360

caagaacgat gtttggagct cgcggtgaat atttctg 397

<210> 35668
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B7

<400> 35668

cccacgcgtc cgcccacgcg tccgcggacg cgtgggtgcg attactataa catcaagcca 60

gatctagttt cactggccaa ggctctttca aacgcctacg tacccatcgg ggcaactctt 120

gttagcccag agatatcaga tgtgatccat tcccagagca ataagcttgg ttcatttgct 180

catggattca cgtactccgg ccatccagtt gcctgtgctg tggccattga agctctgaaa 240

ctttatcgcg aaagggacat tcccggccat gtcaagcaaa tcgccccaaa gttccaggac 300

gggattaggg cgctggcaga cagtccgatt ataggggaga tacgtggctt ggggatgatt 360

atgggtaccg aattcacaaa caacaagtca ccg 393

<210> 35669
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B9

<400> 35669

gcgagaggga agagatggcg gcgtcggacg ttgagtaccg ttgcttcgtt ggcggcctcg 60

cctgggccac cgacgaccac tccctcaaca acgccttcag cacctacggc gaggtcctcg 120

agtcgaagat catcctggat cgggagacgc agaggtcccg cggcttcggc ttcgtcacct 180

tctccacgga ggacgcgatg cgcagcgcca tcgagggcat gaacggcaag gagctcgacg 240

gccgcaacat caccgttaac gaggcccagt cccgcggcgg ccgtggaagc ggcggtggcg 300

gatacggtgg cgggcgccgt gatggaggcg gctacggcgg tggcggtgga agctacggcg 360

gtggtcgtgg aggcta 376

<210> 35670
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C1

<400> 35670

tcgtccactc gttcgcagac tcgtgggttt ttttttttt ttttttttt ttttttttt 60

tgtttgggtt ttttttttt tttgtttttt ttttttttt ttttttttt ttttttttt 120

ttttttttt aaaaaaaacg gggttaaaaa aatttttta aaaaaaacct tttaatgggg 180

gggcattttt ttcccacaaa accaaaaaaa gggggaaaat aaaaaaaaaa aatttcaggg 240

ggacggtttt atttcccatc cgtgatttcc acccgtcaaa aaacctgatg gggaatgttt 300

ttttttaaa aacccggggg ccctccaaaa tttcaagggg gggcccttca ccgttttatt 360

tcggataaaa aatttttt 378

<210> 35671

<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A4

<400> 35671

gccgcggcca acgcggcgct gccgccgggc gcaaagccct tctccacgtt ccagtccgtg 60

ggggcgcaca tctggcgcgc cgtctcccgc gcccggggcc tcggccccgg cgacatcacc 120

gtcttcgccg tcttcgccga ctggcgcgcc cggcttgacc cggcccttcc ggcggcctac 180

ttcggcaacc tcattcaggc ggtgttcacg ggcgtgcccg cggggatgct cctgggcggg 240

ccccccgagc tgtccgcggg cctgctgcag aaggccatcg acgagcacga cgccgtcgcg 300

gtcaccagga ggctggagga gtacgaggcg gcgcccaagc tgttccacta cagcgacgcc 360

ggccccaact gcgtggccgt cggcagc 387

<210> 35672
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-001-Q1-K1-C10

<400> 35672

cccacgcgtc cggtactact atccccgcta ccgctagccg ccgcgctgct catctggtgg 60

cggctcgcct ccctcccccc atccgccgcc gccggctcct cctctagctc cctccttacc 120

ccgagcttta agctcgtgct acctgcctac ctatccgtag ggagagagag agagagggga 180

gaaggttcgg tcggtcggtc gggggctctc ggatctcgcc gctgcctccc cgtttcttcg 240

ttgggatctc gctcgcttcg cgccatggcc gccgtcgcga cgccaccggc ccccgcgccc 300

ggcgggcccg gaaccggcac cggcaccggc tgctgctccg gctcccgtca ccgtcgcccc 360

tgccgcggac caaaccacgg atctgctgca gaagttgtcg ctggattcgc agcccaaggc 420

ggcnggtgcg acag 434

<210> 35673
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A1

<400> 35673

ggcctcctgg atctcctggg acatatggtg tttgacaccc agcagatcat aaagaggcct 60

caaggtggcc acatgggcta catcaaccag gcgctcttat c 101

<210> 35674
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A10

<400> 35674

acacacacac agacaagtgg tttccaaagc caagtttgtg tactagcaac cagctagctc 60

gggcggcagc aggcagccat catgtcggag gagaagcacc accacttctt caaccaccac 120

aagaaggacg aggagcagcc cgccggcgag tacgggtact ccgagaccga ggtggtcacc 180

gccaccggcg agggcgagta cgagaggtac aagaaggagg agaaggagca caagcacaag 240

cagcacctcg gcgaggccgg cgccatcgcc ggccgggcct ttcgcactct acgagaagca 300

cgaagcgaag aaggaccccg agcacgcgca caggcacaag atcacggaag aggtcgctgc 360

cgcggcggcc gtccgcgccg gcggctacgt attccacgag caccacgaga agaag 415

<210> 35675
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A11

<400> 35675

ccggttcggg attcgaccct cgcgtcacgc gtgctacaac aggccttata tgaactacaa 60

tgttattcgt gctgataaca tggtgatcca ggcaatcttt ctattggata tgcttaacaa 120

ggacatcaat tccttctcca tgagagtcag cccctcaaat caactttgga acccaaatgg 180

tcaagccttt ggacggaaag ttcagcaaag gtaatcgatt aaagaggctt cacagcagtg 240

gctgagggac ccaggagttg tggggcgtca cagataatcg gcatggaatt tagtagttta 300

taacagtgcc tgaaggagct aggatttatg aatcattctc caccaccttg aggtactcac 360

cggagccaga atttatgaat cgttgtccac catctcgaga tatgatattg acatgaccaa 420

atgcatttac tgtgggttct ac 442

<210> 35676
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-001-Q1-K1-A12

<400> 35676

cccacgcgtn cagccacgcg tccgcccacg cgttttccca cgcgtccgcc cacgcgtccg 60

cggacgcgtg ggttctacat cacaaccctt cgttgagtcc tatcaacctt tcattgctca 120

ggtagctggc ttttttattg ttgaggaccg tgtctttcga actgcagatg gacttctatc 180

tgagagccag gttgatacta tgttggaaac agccatttct aaacttactc tgatcttaga 240

ggaacagttc tctcgcattc atgctgccaa ccacctnctn ctcattaaag gttatgtcag 300

ccttttggt gcaaccctgg agaagtatgg gtaccgatcc atgtcgctgg ctgaaatcct 360

tgataaaact agggacaagt atcttgaact tcttctttct gactgccgga agcagctcaa 420

cgag 424

<210> 35677
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A2

<400> 35677

tcgggacttt gaggttaaaa acagttagat ttgtaaagaa ttcttttcat ttaaaattga 60

gggggcgtga tgatatagtg ccagaacaca ctgggggggta aatgggtgtg acaggtaatg 120

ttagctttca tctcatttag tttgaggtcc gctaatagct gcttactttt tatcttaccg 180

tcttgttctg tttgtgagag actttgaagg ccaatttcta aggaaatcaa gagtaattta 240

gatttaaaga tgtttacgaa gctgttacac attgaattag tatgtgatct acaaccaaac 300

tctgtcccat atgagcggtc atagattttc tgagatgact 340

<210> 35678
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-E1

<400> 35678

gcgtttgttt ttaacccaag cggaagcatt tcaatacatt cactcataca gatagacaaa 60

caggtatcag tacatagatg acatgtttcc ttaacaagaa aatgtcgatg agcaactaaa 120

aacaaaacga gatgaaacac aggacaactt ttcatttcca gtacactatt aaaatcgggc 180

ccctagcatc gatgccttta cttcttgcct tcgataggga gtatttccaa tccagccatc 240

cattcaagta atgcaagcca tttctgagat aaatagccat tggtttctct ccttgtctcc 300

tttggataaa agccctactg ccgtcgccgc tttctcgtaa cttcctttgg gaacctgaga 360

ggggctggga gcgtcatgaa agtagactta aaagcacctt ctgtcacaga tttgcatccc 420

aactggtcat aatatgggtt aagattttg 449

<210> 35679
<211> 354
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-E12

<400> 35679

ccctctcttg atcgttctgt tcctcacanc acacggtggc tgggcgacct gagaagcatg 60

cggcccccgc ggcacatgag acggccgtgc acatcgtgta cgttgaccgc cccgaggacg 120

ccgaccctga ggagttccac attcgcaccc tcacccccgt cctcggcagc gaacagaagg 180

ccagggacgc agtgctctac cactacaaga acgccgccag cggcttctcc gcgaagctca 240

ccccccagca ggtcaaggat ctcaaggagc aaccaggtgt tctccaggtt gtgccgagcc 300

agacttacca gctacatggt cctgggtctg gcactcacca gggcacgaca caca 354

<210> 35680
<211> 227
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-E3

<400> 35680

ctttactctc ttttctactc tctctcctac caaaaaccca tgcccttaag aaattttaaa 60

ttccttttca acaccaaaca annttacacc cacttcattg gcctcccccc ttttgttgtc 120

tccttcctat tctccctatt aaacaagcac caacttttcc aactctacat taacaaccca 180

tctttcaact acgtctgttt taaaaccccc ctttttttc caacaac 227

<210> 35681
<211> 355
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-E4

<400> 35681

cggtttcgga attacccggc tgcgacgcca cgtcgnntcc gcccgactcg tcccgtcccg 60

agttgtcagt catatatgat aaaaatttaa acncataacg ttcagaaggg ggacagtcgt 120

caacgttgag aacgcanaat gtctttttga gggtgatacc catctagagg catcaaagaa 180

gaaaatcgtc tgctatatca acacatncct caatgcagnt gaaatcactt aagagaattg 240

cggaccacca aatagagatg gaaaggtacc tcaaagcttg gttgatagaa gtttnttccc 300

ctttgtgctg aaaaagatag gcatgccacc cgttttgact tgtcccagaa gagca 355

<210> 35682
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-E5

<400> 35682

gttgaaaagg catgtaaaca aggtgtcctg tatggtaaag aaatggtggg gaggggcgga 60

agaacctgcc aaatccagca aaagcaaaat tgagctctga agcattgttg aatcacgtca 120

gtaaatctca tccgtcttcc acttctcctg gagcaaagtt ttagatggtt atcggaagat 180

aaaagttaca gcaacgcatc cagggctttt gttagagagt ttagctacat aaaacgtgta 240

caattgtttg tttttaactt ctgttatttg cagtgtacac tagtaaaaga actgaactcc 300

gatgatagtt tttttccaag ttagttgtgt cccaattggg tcgtgtagtg tttgatactc 360

tataaaacta aac 373

<210> 35683
<211> 336
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-E6

<400> 35683

ttcaaaatct acaactgtaa ccccagctcc aaatactaat ccacttccag atccctagag 60

caccaatgct gggagtgcac aangtgcaac acggactcct agtggcaatg caagaactgg 120

tggtgttggg ggcactggtg ccaccggtgg actgggagga ttgggttcac cagaattgag 180

tagtttgctt ggtggtcttg ctggcagtcc aagaactggt tctgctggtg gtttaggagg 240

ttcgggttca ccagatttgg ggagtatgct tggtggttca cctgatgttt ctccgttcag 300

tcagatgttg caaaaccctg caatgataca catgat 336

<210> 35684
<211> 351
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-E8

<400> 35684

nncgccgncc cgcctccaca gcccagtcgc tacgtcgtct cttccttacc aggattccca 60

tggcgccctc ggagcgagct cgtcacagtg ccctcttgcg acatccaatn caagtgttac 120

aacccatgtt cggtggccct cccgcccctt tggnggtctc ctctcctatt cggccggttg 180

ggacaaagca ccacgtgttt ccaagctcta tcatgagcgt acccatctgg caatctacgt 240

gcgggtggga aggccgccgc tgttggggcc aacagccagg ccgcgcagtc catgctcaag 300

caggactaca aggacgcctt gacccgcgag gaggccgtcg gtctcgcgct c 351

<210> 35685
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-F11

<400> 35685

gtgagatgga tcggttggag gagcggaaca tttaaaaagg ggagagggag atggaggaag 60

cgcgcaatga atatgagcgg aatgaggaag cggtggacag gaatacccag gagccgcagc 120

aaggtcaagg cctcatcctc tcactcgcca acggcagcga cagcggcagg tctggaatgt 180

tgccgatgtc gaacccttca gctaatccca cacagcttac aattttctat ggtggatc 238

<210> 35686
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-F2

<400> 35686

ccatggagag gaatagttca ctgcttttca tctaaaacga ctaaaggatt cacacaagga 60

ttgtagctca aagctttctg aggaatctgg aggatgctgg tgtgacatgc ttcttcctat 120

tgttaaagaa gcttggagga actgcaagaa agcaattgag gcatcttcgc caccaaaagg 180

atccaaatct attattgtac ccatggattt gtgttcattt gaaggtgatt cttctgttg 239

<210> 35687
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-F6

<400> 35687

cccacncntc cggacctttt gaaaaatctt aatcataaaa atattgtcaa gtatttggga 60

tcattgaaga caaagagcca cctccatatt attttggagt atgtggagaa tggctcactt 120

gctaatatta tcaagccaaa caaattcgga ccttttcctg aatctttggt ggctgtatac 180

attgctcagg tgttggaagg tcttgtttat ctgcatgaac aaggtgtcat tcatagagat 240

atcaagggcg caaatatact gactaccaaa gagggccttg tcaaacttgc tgactttggg 300

agtgccacta aattgactga agctgacatc aacactcatt ctgtggtcgg cactccatac 360

tggatggcgc ctgaggtcat cgaaatgtcn tgtgttt 397

<210> 35688
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-F8

<400> 35688

cagatacgtt ctgcaaacag tatggcctgt gcaggggcac ggctcttttc tctggtggga 60

caagtgacag cacatgtgtg ttctgccacc acctgcttga tgaagttatg tccaaactga 120

aagatccgga cgcggagttt gagatagttc agattcttat caaggagtgc aataagattg 180

aaggccacgt ccagcagtgc aagcgactgg tcctgcaata cattcccctc atcctggtga 240

acggcgagaa gttcctcgag aagaatgatg tttgcgcgct cgtacaggct tgtccagcca 300

cccataagaa gactttcagc tc 322

<210> 35689
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-G12

<400> 35689

ttggaagaac cacgcgtacg aaaaaaaaca atgcaattaa cattcatatt tttacatttg 60

aactccaaac aaaacttaaa gaaaccaaag cacaattcac atataaatac attctccccc 120

cactttcaaa ctaccagact taattatact taccttcaac ggtttccttt ttttatctca 180

tgaccataaa taattt 196

<210> 35690
<211> 344
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-G3

<400> 35690

cccactcgtc tcgcggtact cgtgtggcgc tcttcagcta cagcgtacgt tctgagagcg 60

cggcgggcgc cctctgcgcg cgtgggacgc tgctnaacag gagtgcggac gatcctcggc 120

gcagggagag cttgatagat agccacggct tgtgggcgtg cgtcgccggc ttggacgtga 180

gggccgcctg tggcggctca gaagatagca tggcgggcgc cggctggtac tcgatgtgcg 240

ggtagaccgg ggtcggctga tcgcgcgcgc ggaggagcga gcggtcaatg aagggcatga 300

cggcgatcgg tacgccgcgg cagatgtccg cccacgagtt gatg 344

<210> 35691
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-G4

<400> 35691

ttgacccttt ccatttttat tacatatttc gataaaacta aaaataaaga gtttctgtgc 60

ggattatgca cgctctgaat ccttaaaatt atatgcaaag gtatttaatc aaggcaattt 120

tttcatctat atttcccaac cggatgtaca ccacttgcat ggtaccaagt actatatata 180

taaaaccaaa tgttattttt tgttaagccc tcaaattatt catgcgagct cgcttataat 240

atcaaat 247

<210> 35692
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-G6

<400> 35692

gggcacttct cattgctcta tttgcaactg tgctccatgc aagcttcagg gcaccaaggc 60

tcaaatcacg tgtgaataca ttcanagagg aattccgggc tgtttggcgg aattatagtg 120

agctttaagg gtttcctttg tttctctcat gttcatgggt aatgaaggtg tctggtgccg 180

ttgtttgtga gctgtgctag gagatctagt tgaaggtgaa acgccattgc acattacatg 240

gactacttgc tctcttggga ggtgggattc tggttgggtt gactccgaat gcgatgctat 300

gccagcacac gatccttcaa gaacaatagt tttctttcgt acttctccct aaccgagcat 360

tagagagagg acagcatgta aaggatgtaa aaatgt 396

<210> 35693
<211> 252
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-G8

<400> 35693

cccactcttc tcgaccaaac atatgacgct catactttaa ggaggagaat aatggatggt 60

taggganaag atatcgtggc gatagcgtta taagaatgta tacannaatc ttttgtgagc 120

cgatataccc catttgtttc gattgaagat nccttttgac ccaggatgaa ctgggttcac 180

ttatgctaaa gatgacttga aagaaattgg agagcaaagt gccagattgg tttggtgatg 240

aaaccttctc gt 252

<210> 35694
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-H12

<400> 35694

ggaggtgcan ctgcaaaacc tggggttttg gatcctggac ctnggctacc gctcccagga 60

ggaagcctgg gctgctggtg gcaaccncnt tctgctcaag accacaaacg gaaggaagag 120

ctggatgcgc gacaaagctg ccgacaacat cgccgccaat ctctactccg tcaagttcct 180

tgatgacaag aaaagcttcg tgctgggcaa cgacggcgtg ttgcttcggt atcttggctg 240

acattctatg tatatgtgtg tacagcgaac ggcatgtgct gctgctacta ctactgtaaa 300

aggctgctta ctgtgcttgc gttctctctt ctgcaaccca aattgagtgt aaagatgcat 360

gtgc 364

<210> 35695

<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-H2

<400> 35695

tcgcccactc gttcggagag cgaaagcagc tcatatacac aggagggagg tagaaaggag 60

tgggagcctc ggaggaggga gagggcgaaa agtaagggga accaaatctt gaagggtaaa 120

cggagagttc tttcgtggaa gaagaagggg gggacagcaa gaggagggta gaagtagctc 180

aatagatcta ctgctgtcgg gggagttaat gcaaagctga gttgctgcac gttggctttc 240

ttcagagatg gcttcagctg gtgtagcccc atctgggtac aaaaacagca gc 292

<210> 35696
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-H4

<400> 35696

ctgcaacaac ctgccggtcc ccttcctcct ctcctggcag ggaattcagg agcggaggag 60

ctcatggcag gacggcgtgt accgcaccaa ctgcccgatc cctccgggcg gcaatttcac 120

ttacaacatg cagttcaagg accagatcgg gagctactac tacttccctt cccttctgtt 180

tcacaaggca gctggcggtt acggtgccat cagggttctc agccggccga ggatccctgt 240

cccgtttgac ccgcctgccg gggatttcac catattggcg ggtgactggt tcaagctcaa 300

ccacaccgac ctgaaaggca ttctggacag tggcaatgac ctgccgtttc ctgacggcct 360

tcttatcaat ggccaaggtt ggaatggcaa c 391

<210> 35697
<211> 351
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-D9

<400> 35697

cccactcctc cnattcgatg ccttgcatcg cactcagagg cactttcttg gggacgagct 60

tgtcccactg agtgtgaagg anttncanca nctacagaaa cagctcgaat gtgctttgtc 120

acaggcaaga cagagaaaga cacaacttat gatggagcaa gtggaagagc tccgcagaaa 180

ggagcgacac ttgggagaaa tgaacaggca actcaaacac aagcttgaag ctgaaggttg 240

tagcaactac agaaccctgc agcatgcagc ctgtccagct cccggcacca ccatggtgga 300

gcatgacggc gccacctatc atgtgcatcc aactgctcaa tcggttgcaa t 351

<210> 35698
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H8

<400> 35698

gctgagtcaa gaatatgcca tggaatgaat tggcattatc ctcatgaacc attcatcacg 60

gagcttcagg gtcggattac gaaagctgat gctgtattga gggacaagga agaagaaaat 120

gtgatgctga aacagcaatt ggaacagtat gagagtcaat ggtcagaata tgaggccaaa 180

atgaaatcta tggaagaggc atggaagaga cagctctctt cactgcagct gagccttgtt 240

gctgctaaga agagcctagc tgctgccgat gtggctacta gaactgctca gactgattgt 300

actccaacac atgcccagta cgactctgaa gacacgttgt ccactgggac ccatacaccc 360

gaagtgacag aatcgaggca ccgtaaccac aaccacaacc ctgaaactaa aagtttaaca 420

tgaaactcgg ataggcgag 439

<210> 35699
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H9

<400> 35699

ccgacgctta cgaacatgtg ccacattaac tataaacagc tgtcctactt gagagactga 60

gcgtattatt acgatgatga ggaggaaact caacagcgca tccacacgat ggagagcgaa 120

tatccaccgc gtcacgccag tgctctgagc ctactagtgc gctctggcag gaccagctgt 180

cggcatctaa acttacagcc ttctctcgca cagcaactcc gaagatgttc ctaccaaatc 240

agatctggtt tactgcacag cagcatcaga cgcccacccc ata 283

<210> 35700
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-A12

<400> 35700

cgggcggtgg caagatcgag gctgaactga gcaatatctg tgattgcatc ttgaagctgc 60

ttgagtccca cctgttgcct tcttctactg ctggggaatc aaaggtcttc tacctcaaga 120

tgaagggtga ctatcacagg tatcttgcgg aatttaagac tggtgctgag aggaaggaat 180

ctgctgagag cacaatggtg gcctataagg ctgctcatga cattgctctg gctgagctgg 240

cacctaccca tccgataagg ctgggacttg ctcttaattt ttcagtgttc tattatgaga 300

ttctgaactc cccagacaaa gcttgcaacc tggcaaagca ggcgtttgat gaagctatct 360

ctgagttaga cagccttggt gaggagtcat acaaagatag cactctgatc a 411

<210> 35701
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-A4

<400> 35701

gcgttctccc actcntcccc catcttccgt tcttatattg tgtttggcat acaagggttt 60

tgcgtgatgc catggagtga tccgtgnang tgcctggtgt cctccctgcc agtgcctgaa 120

gcaaaccatc ctccatcaga tttctctatc ctcctttctt tatacttaca atctctctgt 180

ttgaatgtga aacatagtgg tagagtagct aaactattta tgacctgaga ctgacgtgtt 240

catgttgtta gggagaagaa agatcnccat ggccactgac tcgggtgcat ggngccttga 300

ccaggatgct taagctcgtc ttggcattag ttgaaggtaa cctcgtgtgt taacaaaaag 360

acaaacaact ttgttgaaag acttgaagtt cttttaactt gttgct 406

<210> 35702

<211> 319
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-A5

<400> 35702

tcgccgcact cctnncnatg cggtctcatc agctatcggc accaccgtcc aaagatggtg 60

anattgctca agcccggcaa ggccgtggtc ctccntccag gccggttcgc cggccggaag 120

gccgtgatcg tgcgcgtttt cgaggagggc acccgtgatc gtccctacgg gcactgcctc 180

gtcgcgggcc tcgccaagta ccccaagaag gtgatccgca aggactccgc caagaagacg 240

gccaagaagt cccgcgtcaa gtgcttcatc aagctcgtca acttcacgca cctcatgccc 300

acccgctaca ccctcgacg 319

<210> 35703
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-A6

<400> 35703

tcgcccactc gttcgcccac tcgttcgtgg gtaggacaag cttgtcgtat caagttcctg 60

cgcgctcatg cacaccgctg tggatcttgt taacgagact aagcttgaca gcgagattaa 120

gtcttggctt gcttttgctg cccagaaggt tgttgaggtt gatgctcttg ctaaagcatt 180

ggctggtcaa aaggatgagg cttacttcgc agcaaatgct gctgctcagg cctcgaggaa 240

atcctcaccc cgtgtgacca atgaaaaagt ccagaaggct gctgctgctc tcaagggctc 300

tgaccaccgc cgtgggacca acgttagtgc tagattggat g 341

<210> 35704
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-B11

<400> 35704

gcaagccatg tggaggaagg ctttatcgat ggtcctgttc atggctggcg ccgggctgct 60

cggcggggct gtcggcgccg gcgcgcatca tttcgtgtgg agcatcatca cccggcccat 120

gttccagagc atgctgagcc accgcggcga cagcgggtgc cagggcgcct tctacaccta 180

cgacgccttc atcgaggccg ccagcaagtt ccccggcttc ggcaccaccg gcgacgagca 240

gacgcgcagg cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccggtgg 300

atgggcgact gctccggatg gaccgttttg cctgggatac tgccgggtga aggaacagaa 360

acagacggac ccaccctact atggacg 387

<210> 35705
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-B12

<400> 35705

gtctggtggc cgaggtgtct aggccggcta ggaagcgcct tatgcctaac ttcaagcgcc 60

ttcagcagga cccgcccgcc ggcatcatcg gcgcgccgta cgacaacaat atcatgctct 120

ggaacgccgt catattcggg ccggatgaca cgccgtggga tggaggcacg ttcaagctga 180

ctctgcaatt tacagaagat taccccaaca aacctccaac tgttcggttt gtttcgagga 240

tgtttcatcc aaacatctat gcggatggaa gcatctgttt ggaca 285

<210> 35706
<211> 261
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-B4

<400> 35706

tcaacttcct gagctctcat tcacacctcg ttggatcttn ctaacnanac taatcttcac 60

accaaaatta aatcttggct tgcttttgct gcccacaacg ctgttgaagt ccatgctctt 120

gctaatgcat tggctgctca aaaagatcaa gcttacttca caccaaatgc ttctgctcat 180

gcctcgagca aatcctcacc ccgtgtgacc aatgtaaaaa tccataacgc tactgatcct 240

atcaaagacc tctaccacct c 261

<210> 35707
<211> 270
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-B8

<400> 35707

ccctgtctct ctctctcttt ttctctctct ctcggtaggc cgatccacca gaccatttgg 60

ggcaaccagg tcggcggcgg cggncttcaa gggtggaacc ctttcgacgt gatccgcagc 120

ttcccgtcga cgcccgagtc gctaatgtcg cagatcgacg cggtcatcgt ctccaccgag 180

tacgcccgcg cctgcgccct cctcgacccc tcccaagtct cagcctcgtc gccgcccgag 240

atcgatcccg taggccaggg ggaccgggga 270

<210> 35708
<211> 286
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-C10

<400> 35708

ggtgaacaaa ataagaaggg ctatttttt tttttatatt tattaccgcg ttccattaga 60

aaaaaattag aggtgtgtgt gantgatgta agtcttgatt ttgttcattg ggttgtggtg 120

atcattttgt aatggtagtg gccaatggaa ttggagagtg ggttaagttt tcacatatga 180

tactatatat aaggcatcat atggagttta gaggtgcagc agtgtttgtt gtttacacat 240

gccttcaaat gttagactat ataagatttt accctgtacg taacct 286

<210> 35709
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-C12

<400> 35709

gcggtctcgt gggtaaagat agaatgcatt ttgtgagtgg tgagtcgtta attgaatgcg 60

ctactattgc ttacaagtgt gcaaaagttg gtgcagtcgg gataaattgc acacctccaa 120

gatttattca tggactgata ctctccattc gaaaggtcac agacaagcct attctgatat 180

atcccaacag tggtgaaaga tatgatggtg aaaaaaagga gtgggtggaa tccactggtg 240

tgtcaaatgg tgattttgtt tcgtacgtaa atgaatggtg caaagatggg gctgcgctta 300

<210> 35710
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-C6

<400> 35710

cccagcctcc ggtctggtgg tgtgcttgtg caaccagcaa cattatgtgg ctatgaggat 60

agagatatgt tctgcattgt tcttctacct ggaagtggca acagaaaggt attcggaaaa 120

gcagttgtgt ttattgttga cacaagtgga agcatgcaag gaaagcctct tgagaatgtc 180

aagcatgcag tttctactgc tctttcagag cttgtgcaag gggattattt caacattata 240

acatttaatg atgagcttca ctcattctct tcctgtttag agcaagtaaa tgacaaagca 300

atagcaagcg caactgagtg gatgaatgca aaacttgttg ctg 343

<210> 35711
<211> 331
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-D11

<400> 35711

cccttccctt cccttggatc catacaatac gtcaggaacc cannatgacc gcggcggctg 60

gggcgagaag agatggccga cggcaacanc aactcatcgg cgtcggtggc catgggacaa 120

gaggtgcagg ctttcgttga gaacaagtat ggtggaatgg tgcctaagaa gcctctgatt 180

tcaaaggatc aagagcgcgc ctattttgat tctgcagact gggtccttgg caagcaagct 240

gcaaacagcg gcaccgcacg ggctgcgact gctatcgaat tcttgaagcc aaagctaaag 300

aggacgcccc atcaccagct tccccctcgc a 331

<210> 35712
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-D12

<400> 35712

tctcttcatt tcttttagac tcnatacccc cccgagtttt agttccttct ttcggtcgag 60

agagccattc tggtggcaat ggcgaaaagc gagggtccgg cgatcgggat cgacctctgc 120

accacctact cgtgcgtcgg cgtgtggcat cacgaccggg tggagattat cgccaacgac 180

caagggaacc gcaccacgcc gtcctatgtc ggcttcaccg acaccgagcg gctcatcggc 240

gacgctgcca agaaccaggt cgccatgaac cccaccaaca ccgtcttcga tgccaagcgg 300

ttgatcggca ggaggttctc tgatccgtca gtgcagagtg acatg 345

<210> 35713
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-D4

<400> 35713

ggatgaaaaa aatgtatatg ttgttattta attatgcaaa ggangtgaac tgctggacga 60

aattttggct agaggtggga aatattctga gggcgatgct aaagttatta ttcaccaaat 120

tctaagtgtt gcttcatttt gtcatcttca aggtgttgtt caccgggatc tgaaaccaga 180

gaattttctt ttcatgtcaa aggatgagaa ttctgccttg aaagtcattg actttggttt 240

gtctgacttt gttaaaccag atgacagact taatgacatt gttggaagtg catattatgt 300

tgctcctgaa gttctccatc gatcttatgg cacataggct gatatgtgga gcattggagt 360

aattgcatat antttgcttt gtggaagccg ccctttctgg gcacgaactg agtcaggaat 420

tttt 424

<210> 35714
<211> 353
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-D6

<400> 35714

cccacgcgtc cggtcacttg ctctccctcc aacaagctaa ttaangccgg gccatccggc 60

ttctagctcg tttcattatg catggctgan gagaagcacc accaccacca cctgttccac 120

cacaagaagg acgaggagca tgccgcggcc ggcgggtacg gcgagtccgc cgagtacacg 180

gaggccacgg tgacggaggt cgtgtccacg ggcgagaacg agtacgacga gtacaagaag 240

gaggagaagc agcacaagca caagcagcac ctcggcgagg ccggcgccat cgccgccggc 300

gccttcgcac tctacgagaa gcacgaggcg aagaatgacc cggagcacgc gca 353

<210> 35715
<211> 308
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-D8

<400> 35715

gtcgtcgtcc actccggcat ctccgattct accaccaccg ccgtttcttg gggcaccgtg 60

gtcttggtcc gctgccacga cnnnaacggc cggactgtgt tccggaagga cggcgtcgtg 120

actgaccgca tcggcaggtt ccgcgtgcac ctcgcgcacg ggccaagcag cggcggcatc 180

agcagccacc agctccggtc cgtcacgtcc tgctcggtgg cggtgcacct cccgcaggcg 240

tctccgccgt gcgtcgccac cgccagctcc gctcgcgggc tccacctcgt cggccaccac 300

aacaagca 308

<210> 35716
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G2

<400> 35716

cccacgcgtg cgacccaatc tcccctacac cagaaaaatt cccagttctt tggtccgcgt 60

gagagagtct gttgcgatgt ctgggcgcgg caagggcggc aagggtctgg gcaagggcgg 120

cgcgaagcgc caccggaagg tgctccgcga caacatccag ggcatcacca agccggctat 180

ccggaagctg gctaggaagg gtggcgtgaa gcgcatctcg gggctcatct acgaggagac 240

ccgctgcgtg ctcaagatct ttctcgagaa cgtcatccgc gacgccgtca cctacaccga 300

gcacgctcgc cgcaagaccg tgaccgccat ggacgtcgtc tacgcgctca agcgc 355

<210> 35717
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G3

<400> 35717

cccacgcgtc cggatactgt gatgttgctt cttcaaatga gtatttattc gtttggaaca 60

cctggagaat gtgggtttgt caattatcag cccatgaaga atatttggac caccgtgggg 120

tgttgtcctg agcatggctc cttgttttga aacatacaaa gcaat 165

<210> 35718
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G4

<400> 35718

ccaagacttc tggacccaat actatgagct tatcaacctt ggaatcctcg ccaaattgag 60

gcaggtgctt gaatgtgtgc ctcatgctgt ggacttgaga aaggtgtgga gcacgttgag 120

gctcatggtt ggagctaata acggtaggat atgggcatct ctaacttccg tgtcacttgg 180

tggacagact ttcaggcgag ttgctgttgg actgattagc tcgaccatct agcagcatca 240

agagaacgtg ctgattcatt gaatcgctcc tgttactgct gtaactcaca ttgctcatgt 300

taaggctgta actcacatga gcatatt 327

<210> 35719
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G5

<400> 35719

attttgtttc gtacgtaaat gaatggtgca aagatggggc tgcgcttatc gggggctgct 60

gcaggacaac tccaaacact atcagggcca tacacagaac tcttaaccaa ggctgccaca 120

agcatcagtt acctgtaggc tgtagcatag atctgtgctc cactcctgat gctctcctcc 180

cagcagtacc ttgagctgta tccccgagat tccttaacca gcgcgaacca atatactgtt 240

gcgtgttctc ctgcaaatga gatgttctgc acctatgttt gtaatgttgt atttctgggt 300

ttttaagcta tccaacttgg agatacaacc ggtgaagaag cagcaacaat aggtagttct 360

acttctgagt gaagaaaaac aacttgc 387

<210> 35720
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G6

<400> 35720

cgccaagcgg tgaagcagca tcggccatgg taggagacca agccagcgcc agagggcgat 60

gggccgctgc gccagggccg cgctcctcct cgcctccctc cgccggccac gcgcgccgac 120

gccgacacag gatcgccgcc ggacctccta ctctccctcc tcggccgccg cagcggagct 180

cgcgcggctc cggtccgagg ggctcctccg cagcgccgag atcgcagcgg cgcggcgcga 240

ggccgctgcc cacgcgcggg tcgccggctc cgagctgctc ctcgtacttg ccgtggcgcc 300

cgccgtacta ctgctcctcc tgctcgggct tctctaagcc agcggcggcg tgtgtagcgc 360

ggtggctgga gtct 374

<210> 35721
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G9

<400> 35721

cttcctcctc cactccactc ccaagtcccc ttctaccccc aaccccgtct ctccactgcg 60

gcggaggctt cgcttcggct ccgctcggct cgagcagaaa aaaatgcaac gggcagtgca 120

agccgtcagg tcacacggca atgttcttaa atatgctgtt ctacaacaca tcagcgctcc 180

caagccagca atgcttcctg ctgccttttc tcgtttcatg tcagtttcat ctgctcgcct 240

agaggatcgt ggatttgaaa ctgccactgt agcagatgtc ttgaagtcta aagggaagag 300

tgctgatgga tcttggctct ggtgcaccac agaggatagc gtctatgacg ctgtcaaatc 360

tatgactcag cacaacgtgg gagctttggt ggttgtcaaa cctggacaga ataaatcaat 420

cgctggcatt gtcactgaga gagattatct ccggaaa 457

<210> 35722
<211> 129
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H1

<400> 35722

accacgctta tgtcaacgca aacaagtact ctcattctat acccttactg acatttctga 60

gcatggaata ttcctgtttc ggtctgcggc tcaccgtgcc tacattacat caaagaagcc 120

catacctaa 129

<210> 35723
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H10

<400> 35723

ctcgctaccg gcaggccacc cccatacggc tagtcgttcg tctcctcctc aaccgcaggt 60

cggcagcgcc cgagctctgc gtgcgatgga ctactcgggc accaaggagt cgcctccctc 120

cggggcttgg tggtcgaggg agacggtggc cgtcgtgacc ggcgcgaacc gcggcatcgg 180

ccacgcgctc gccgcgcgcc tggccgagca cggcctcacc gtggtgctca ccgcgcggga 240

cggcgagcgc ggggaggccg ccgcggcccc gctcctggcg cgcgggctcg ccgtcgtctt 300

ccgcaggctc gacgtctccg acgccgcctc cgtcgccgag ttcg 344

<210> 35724
<211> 463

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-H11

<400> 35724

cggacgcgtg ggcggacgcg tgggcggacg cgtgggggcg caggcttgag cgagaggtgc 60

gggctggaca ccaccgcatg ctagggaggc agggagggga gccgagccga ggacgatggc 120

gctgggcgtg ttgttccacg gcgcgcagct agcgctggat ctggcggtgg ccgggatgtc 180

gctggcggtg gcgctcgggt tcttcgccct catcactacc ttgctctgct ccgcggcgtt 240

cctccaccac tccaagcccg ccgcgtagtc atagcctnca cagcgaccaa cgcgtctcaa 300

tctctgggga tcgtaatact ggtgctggta taattcctcc acatcaattg cagaggaggt 360

gctttaatca actgctttat agcacttaca gatgcaaaga gtagtcgatt gcacacatca 420

ggtgatagct ataggctctt ggaccacgtg tatggttctt tat 463

<210> 35725
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H12

<400> 35725

aaaaaaaaaa aaaaaaataa aaaaattatt ttctaaagac acaaactaaa aaaaaaaacg 60

gcgggctgat ttcaaacttc ctgctattca caacctttt actgcgccaa cccaactact 120

attactctcc acctattttc actcttcgcg caggtagctc tctatctttc cccagccaaa 180

atgccgatgc cactcactct cataatctta cccctcatca ctaccttgct c 231

<210> 35726
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-H2

<400> 35726

cggacgcgtg ggacacggcg ctgcagggta aagatctccc ccgctcgccg gtctctctgc 60

gcaggccagc aggacgaaga agaagccggc cgggaagacc caggcctgac cgcctgagct 120

aggggagagg aggacgacga tggggctgct gtctcagcgg gtggagcggt cggagatgga 180

gcccggcgac cacatctaca cctggcgcgc cggctacacc tactcccacc acgggattta 240

cgtcggcggc agcaaggtgg tgcacttcac gcggaagagg gaggcgggcg gcgcgggtct 300

ggactcggcc atcgccgtgt ccagcctnct nctctcgcgg ggctcggacg agtgccccag 360

cttcccggac tgcggcttcc agctccccga cagcggcgtg gtgctgacct gcgtggactg 420

ctttctcggc g 431

<210> 35727
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H3

<400> 35727

cggacgcgtg ggccgcagtt cccccgcgcc ttagacgcaa ccccgcgcca ggagtaagtg 60

ggttcgttta tcgatattat cgatatggcg agggaggaga atgtctacat ggccaagctg 120

gctgagcagg ccgaaaggta tgaagagatg gttgagtata tggagaaggt ggctaatact 180

gtagatgtgg aagagctcac tgttgaggag cgtaacctct tgtcggtcgc atacaagaat 240

gtgattgggg ctcgccgtgc ttcatggcgc attgtctctt ctattgaaca gaacgaagag 300

tcccgtaaga acgaagagca tgtgaacctt atcaaagaat accgtgcgaa gatcgaggct 360

gaactgagca atatctgtga tggca 385

<210> 35728
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H4

<400> 35728

cattcacaat gcacgaattg aacgacaact tgattctcat attgttgata tcaaagctag 60

gggtggctaa ttgaaataat caccatggac tgttcatgta gatactgcat ccgctgctag 120

tacaatatta tatactttta cagttaaccg tgtaatttct tggaaattat caaattcaat 180

acttgtataa aggctctaag ataaagcaag ttcttctagt gatggattct atgagtccat 240

ataagaatgg cccgccagaa tacactttct gctagctttc taatgttcaa ctgaaagatt 300

gtacatagt 309

<210> 35729
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H5

<400> 35729

cccacgcgtc cgacacacat aattaaaagc tcagaacctg cattcagtgt tttggtgtca 60

aggttcttcc ttggggagac gtttccaatt ccagtatatc tttctcttct tccaatcatt 120

ggtggttgtg ctctagctgc tgtcacagag ctgaacttta atatggttgg atttatgggt 180

gccatgatat ccaaccttgc atttggtttc cgcaacatct tctcgaaaaa gggcatgaaa 240

gggaaagccg tcagtggcat gaattactac gcttgcctgt caattatgtc cctggtcata 300

ctgacttcct ttgctatagc tatggaagcc ctcaaatgtg ggctgctggt tggcaaaagc 360

tcttgcagaa gttggaccca atgctgtctg gtggattgct gcacagagcg tgttctacca 420

ctta 424

<210> 35730
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G11

<400> 35730

cggacgcgtg ggcggacgcg tgggtttcca tgcaggcagg tcggcgagga gggcagggag 60

acggaagacc gagccgtgcg ggggctcgtg acgggaactg gacaggacct caaaatctca 120

gatccttcct gccctgccgc ccgtgcacgt cgacgcgtta ttcttgccgg ccgggcccca 180

ccttacgcct ctcctccttc agggggatcg gatacgccac aggctgcacg atggtgctgt 240

gggtcattgg ctacggctcc ctcatctgga accccggctt cgacttcgac gacaaaattc 300

tcggcttcat caagggctac aagcgcacct ttaatctcgc ttgcattgac cacagaggca 360

caccggagca tccggcgagg acctgcacgc ttgaaaccga cgactaggcc atatgctggg 420

gaattgcata ttgtgtcaag ggtggtccag aaaaag 456

<210> 35731
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-E3

<400> 35731

gcaagtacca gaatagcacg gacctgctca tccgcaagct gcccttccag cccctcttcc 60

gggagagcgc gcaggatttc aagaccgacc tccgcttnca gtcctccgct gtcgccgcgc 120

tgcangaggc cgccgaggcc tacctcgtgg ggctcttcga ggacaccaac ctctgcgcca 180

tccacgccaa gcgcgtcacc atcatgccca aggacatcca gctcgcgcgc cgcatcaggg 240

gcgagagggc ttgatctccc gttgttgtcg tccacgttgt tgggcctttc ctctgtgtct 300

ctgcttgtag aatccttgct tctgttcggt tccttctgtt cgcatgatgg tgttcgtagt 360

gttaggagtt gcattttcta atctgcttgt tcttgcaccg gtgcctctga agtggccgtt 420

ccccctatct taatggaaat ggaatgtgcc tt 452

<210> 35732
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E4

<400> 35732

tactgtagag tgtgcccgag gcccgttcgt cggagctcta gcgcccggcc tcgcccgccc 60

ctggctgccg cgcccgcccc cggccccaac caccgtgccc gccggcgcgc gttccctcga 120

ccgcgcttgc cggagctcct gcccccggcc ctgcccgccg tgcccatata acctgccaaa 180

accgagcgaa ccacatcctg tcaacgttgg tggcaggcga tccaaggaaa gcgatgacgg 240

cgtacgaccc caaagacgac gtcaaccgcc tcttcgctt 279

<210> 35733

<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E5

<400> 35733

tccacatcgg ccaggccggt atccaggggg gagacgcgtg ctgggagcta tactgctgga 60

caatgaggcc atctacgaca tctgccgccg atcccttgac attgagcgcc caacctacac 120

caacctcaac aggcttgtgt cccaggtcat ctcatccctt actgccttcc tgaggttcga 180

tggtgctctg aacgtggatg ttaacgagtt ccagaccaac ctggtaccct acccgaggat 240

ccacttcatg ctttcttcgt acgctccagt catc 274

<210> 35734
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E6

<400> 35734

cgctccttcc ctccctctac ccgtcgccgt tgctgccatg gacgaagtcg tcaggcggat 60

gttggagaag caagtgctgt ctgccgcgaa ggcggtggag gacaagctcg atgaggagat 120

cgccgcgctc gaccgtctcg atccggacga tatcgaggcg ctccgcgagc gccggatcca 180

gcagatgcgc cgcgccgccg agcgccgcgc caagtggcgt gcgctggggc acggggagta 240

caccgaggtc cccgagaagg agttcttctc catcgccaaa gccagcgagc ggctcgtctg 300

ccacttctac cgcgacaact ggcccttgca ggtcgtggac aagcacctgt cggcttttgg 360

caaacagcac gtggagacac ggttcgtgaa 390

<210> 35735
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E7

<400> 35735

gaacaatgtg gaccctgtag tgcataatct attgctatct ctatatgcca tgaaggggga 60

ggaatcccag cttttgcaat ttctcgacac aaaatttggt aaatgacaaa catatggccc 120

tgacttattt tactatccaa agtatgctct gcgcctatgt cttcaataga agagaatgcc 180

tgcttgtgtt cgtatttata gcatgatgtc catgcatgcg gaagctgtgg cacttgcttt 240

gaaggtggat ttggaacttg caaaagccta agcttgcaaa gtaaaatact atgaac 296

<210> 35736
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E8

<400> 35736

tcatttatca aattagttaa agcattacat ttcaatattt ctatatcaca tcttgggaca 60

ggtatattac ctcttaccat ctctcccctc ccaatccatc tctctacttt aactatcacc 120

ttcactcaat tcactaccca ccatcttaca tcttcctaac tcttcaaacc ctgacaatac 180

cctatctact caccttatat cacat 205

<210> 35737
<211> 320
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-E9

<400> 35737

gacccgggcg tcccgtccaa tcgggcatac ggttaaaagg cactttaaat tcacaaatgg 60

acctgatcgc aangtatggg cgcctcgacg gtatgacata tttgcatctc cggatgtatt 120

acataccttg tactcacatc atactcaaac tcacgcacat tgcgcatata ttatataaca 180

agttaccgct ggttatggac accgatccac agacacatgg tgtcatggcg gaacccacgg 240

tgttcctgcc gaaaacgcac atatgcatgc caaccgctat gaaaccccat gtgatccata 300

agaaaccaac atatctgcta 320

<210> 35738
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F1

<400> 35738

gtccgactcc tcttgacccg aacgctgtct gcgcgcgacg acctctggct gcagacgcgt 60

gtgctgcacc agcgctctct cgcttacccg acccgagttg cccaacacga gactcgtcgc 120

tactggaccg caccgacgtt cgacggacgg ccccagtggg gctgctgggc tcttggcctt 180

gcgccgttcg gcttgcctgt ccgacgcgcg tgctcgtcct cgtgctcgtg ctcgccttct 240

gcagctgcct cctcgactgc ggtccaccaa attagttcag tttgatcttc tagctagtaa 300

ccggaactag aactagctta gttttacaga aactataaat tcacaccatg aaccctctga 360

acgcggactg ga 372

<210> 35739
<211> 325
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-F10

<400> 35739

ctccacttcg aacgccaagt ggagagccgt ttccagtccg gcacacctcc gcgagaagtg 60

ggggcacggc tgcgcgtcgc tcgacgggaa ggtcgttgtg gtggcggacc gtggcggctt 120

gtcctacgat ccttcggcgc cacctgcgga ggcgtgggca ccggtgtcgc cggtgcttga 180

catgggatgg aagggccgag ctgcagtggt tgaaggaatc ctctactctt acgattacct 240

gngacaggtc aaggggtatg atccggacac tgattcttgg agcacagtgg aggggttgga 300

gagggagcta cccaagttct tgtgc 325

<210> 35740
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F11

<400> 35740

cccacgcgtc cgaacaatat tttgaatata ctgaaagtgt atgattcgtt tcttgcggag 60

tggggtcttt gctttgggta ttgcaagaaa tatgctgacc atgaagcgag acttgatggt 120

gtgagtaaag ctatagaggt gtatgaacga gcagttctcg cagttactta ttcagtggac 180

atttggtata actattgtca gtttgcaatt tcaacatatg atgattcaga tatcatacga 240

agactgtttg aacgtggctt ggcatatgtt g 271

<210> 35741
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F4

<400> 35741

cccacgcgtg cggactcact taacgcttat ctaacttcga tgcatacgtg caaattctga 60

gacaggtcct tgacaatacc cacattgatg acttcaagct taatattgat cttaacagct 120

aactacgaag ctatcagcaa gaacggatca actggcttgc attcctacgt cggtctaagt 180

tacatggaat tccatgcgac gacatcgtgc tcgctaagac gctccaagca tatactatcg 240

cctcaagtga cattgctgaa ccacgtgcac agaatgatga acaaattctc acatctctga 300

ctatctgcac ttctacatta atgcaccact gtgaatatga catagagaaa tacatagaca 360

gctctatc 368

<210> 35742
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F6

<400> 35742

cccacgcgtc cggagctaaa tatgaagctg tagaagctcc agaggacaag cagtggtcaa 60

gggcgcatga ttcagaagac tgaacatgct cttaaagctg ctgaggagga gctgatgaag 120

gctcagttgg aaacaacaac atatgtaaaa cagcttatag aggttcatgg agcctggttg 180

ccaccatggt tagcgacaca tgcagcccgc tctatggagg tgatgtcaaa tcactggaat 240

gaacatggga aacctgcctt tgacagcttc ttgcagaagg catctgaaaa aacagtgcag 300

acaaagaaat gggctgagcc tcatctggaa actgctaaga caaaatggat gcctgttgct 360

aaagaaaaat gggttacctt gaagaaacat g 391

<210> 35743
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F7

<400> 35743

atcagccttc tcatcgccac caatgttcac ttccgaggtc cagaccccta ccgtcggggc 60

gttcgattaa gcgcccgtgg tggagacccc gtcttcggcc gtcgtgcccg aggagtctgc 120

ccccgccgag gccgatgccg atgccgaggc tgctgctcct gctgatcccg aggagcttcc 180

cgcggccgat cagcatgcag ccgccgaggc ggaagccgcg gctcctgctg gtgccgaaga 240

gcccgtcgcg gtcgaaccgg ccgtcgaggc ggaagctgct gctcctgctg gtcccgagga 300

gactcctgcg gtctagcaag atgcag 326

<210> 35744
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F8

<400> 35744

cccacgcgtc cggtcttaaa ttttatgcca tgattgtgtg ttttaagtcg tattttgcag 60

ggttttccgg cgacggctca gagaagctca gctacgtaga ggagctccgc tggagaggac 120

gaccaccaga gataggcgct ttgttgcggt ggctcatact cgctcgacga cggcggcagt 180

gtggatctcg gtcggggagt acgcgcggag gcgctctgct gcagtgctgc agattcgctc 240

gtcggctgcg gcggcggtga tgtggatctc ggccggtgag tacgcgcgga agttctctgc 300

tgcagattcg ctcgtcagcc gcgacgtgga gaaggtcgac ggcagggctt tgaatcctct 360

gtggtgcgaa atcgctcggc gggacagagt cgctgttcca actagctgga cgagagctgt 420

acgaacaagg aaaatcccat tttctc 446

<210> 35745
<211> 291
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F9

<400> 35745

cccacgcctc cactcacgtc gcaaagtttt tgtgcccagc gataaccaca acacaacagg 60

aagccaaaat gagaaccccg gtccgcacgt agcccatggg aatggctttc cttcccctat 120

tgctctccgc cctcatcgtc tcctgcgaca cgcaatcgcc ggactaatcg ccgtccgcgt 180

ggaatgctcc tccggtcacc ggctcagatc cgaggagctc tgtcgcgcca ccgacaactg 240

cggactctgc gccgcatggc tctgtcgcaa cacctacgac aactgcgggc t 291

<210> 35746
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G1

<400> 35746

cggacgcgtg ggcggacgcg tgggtgagtg tgagcgtgtc aacactgttg aaggcgacga 60

ggatgcgtga gcttgcccca tgcgatgaaa ctgttaccta caatcgtaat gtaatgtgct 120

ggtattctcg aatgccatag cccatagtca gccatggctt ggaataacgt agtggctgac 180

cgatatgcca gtaggcacct tatctagtac ttacagaact acaaaaagtt tgtactatac 240

atatatggac aaccttataa gtggctatgt gtgtacctat cctaacgctt atcccagatg 300

gtgtatcagc gtttttctgt g 321

<210> 35747
<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E2

<400> 35747

gggagcggct tctttcgtca gctgttcttg ctttgcctga gcctcttccg cctgcttcgt 60

ggtctggaca ggagccggtg acctcggacg atatcttgga ggacaagatg tcgggggctg 120

ttcttgtcgc catagtcgcc tccatcggca atctattgca agggtgggac aatgccacca 180

tcgcagctgc tgttctgtat attaaagaag aatttcaatt ggcaaatgag cccac 235

<210> 35748
<211> 269
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-G10

<400> 35748

taccgagctc aacctttcaa ctggtgacta tatagtggtc cgaaaggtgt cnaataaggg 60

aggggccgaa ggtgaatgca gggggaaagc tggttggttc ccctacgact acatcgagaa 120

acgggagcgt gtgcttgcaa gtaaagtcgc ccaagttttc taagtcttcc gcggagccat 180

gtagtatatc cccggggttg tacaatgtgt gttggttatg cttgtcatct tcagagaatc 240

agaggagatc tgtaattttg ctgaaagct 269

<210> 35749
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C5

<400> 35749

cccacgcgtt cgcccacgcg tccgcacaat gggaacctcc tacttctgtg aacaccggtg 60

tgacaccttc agcttccacc aacactgcaa ttgagccagt cgctcaagct gcagatattt 120

ggaactctca aatgcagaga tgtttgggct gtggtggatg gggagttggt cttgtccaac 180

cttggggata ctgcaatcac tgtacacagg gttcaaaatc gccctttaa cagtacctat 240

tttacacata taatacgatg cacgccagtg gtaacaatgc tcccaaaact cagggaaatg 300

tttcagctaa gaacagatca agctcaaagc caccttagg gaaaccaaac agaatagacc 360

accgcaaaag aaatcgcccc gaggatgatg aacttgaccc aatggacccg agttcttact 420

caaatgctcc acgcggtggc t 441

<210> 35750
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C6

<400> 35750

cttagacctc cctccccacg aacgagatcc tctaacgtac ttctttcttc agaggagcta 60

ggttgcctgg ccggtcgcgc tgcgctccat ctttggtgcg cttgtcccga ggcgccgtcg 120

cataaagcag cagccccact ttcgcggcgg cggcgcactc acggtccctc gtcacacgga 180

agtcctaaag gagagagcca ggattcgccc atgctcggtg gccgtgatcc tctggccccg 240

ttcctcgtcg cttacttgaa gcgtgcggcg cgcctacgct gcggcgagca gctgcacgcg 300

c 301

<210> 35751
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C7

<400> 35751

cccacgcctt cgtcgactct tgcgctttac ttttaacgta ccacatctca aacccgcggc 60

ggagtacctc agcacccaaa ctgcaactcc acaatgaggc cctcgctgat gagatccacc 120

tcccaactcc tccatcgcca ctactactac tccgcatccc ttcagaccca tctgaaactg 180

gccatcctat acacagagcc agcatcgggc atcctctgtc gctcctcatg aagctcaacc 240

cactgatcta cttcctctca ctctactata tcgcttgcac cccaggagtc gctgccgacg 300

tctcccacat caacttcccc tcactggtta aaagtttcat ggctgatgag caact 355

<210> 35752
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-D10

<400> 35752

ggcacgtaga cctgctgatc ctgaagaaga tcttagatgg atgtctcaag aagttcgtgg 60

ttgtgtcgag gctgttttga atagtctggc ancaaatgtt ccaaaggcta ttgtgctttg 120

tcaagtggag aaagcaaagg aagacatgct taaccagcta tacagctcga taagcgggca 180

aagcaatgct aagattgaag agctgcttca agaggaccat aatgctaagc gcagaaggga 240

gaagtaccaa aaacaatcat ctctcctgtc aaaacttact cgtcaactca gtatccatga 300

taacagggca tctgtttcct cttattctaa tgacaccact gaagccgaga gccctcgaac 360

accaacccgc tcaggtgagg actggaggtc agcttttgat tccgcttcaa atggtccttg 420

tgctggaagc acaaacagtc aatc 444

<210> 35753
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D11

<400> 35753

gagaccgatg attttcttaa atcccgtttt tttcgctgcg gctttaatcc ggccgtggct 60

tctacagtat tttgctgtgt gcctgtatat gatctgttgt tttctaggat aaatggataa 120

tagtcaacac ggtggtcgaa gtaaagtcga catgagaccg aggattttct taaatcccgg 180

cttgttcgct gcggctttaa tccggccgtg gcttctacag tattttgtct ctctatagat 240

tgcaactgcg gctgccagcc agctgatgaa ttcctcagtt agggctacct cccaataccc 300

acataaattc ctcagtagaa gtttctggga catcatattg taaagttcat gtctatcggt 360

aatctgaaat aatatgaaga atagtataga tgtgatgaat ccaaaaaaat cttaactccc 420

ctggcacccc c 431

<210> 35754
<211> 66
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D12

<400> 35754

cccacgcgtc cgcaccgaat tccagtttga tttccttgcc cgcctaaaaa aaaaaaaagg 60

gggaag 66

<210> 35755

<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-D2

<400> 35755

cccacgcgtc cgcccacgcg tccgaggatg atatttgcct gccactgatg atatcattgt 60

ggcaagtgaa cggtctgcgc ttgccgcctt gcttgatggc tttgcctgct gatctcaaga 120

ctaaggtatt ggggttttta cctggggttg atcttgcaaa ggttgagtgc acatgcaagg 180

aaatgatgaa tcttgcatca gatgatagta tctggaagaa gcttgtatcc aagtttgaaa 240

attatggcga gggctctagg ctggcaggca agaatgcaaa ggccatattt gtagaagctt 300

ggcaggccaa taagagacgg cagaagaggc ccaatccaac cttttggaac tatggctggg 360

gaaacagtcc ttatagccgt ccacttaggc tgccattgat tggtggggac tcggacagac 420

ttnctttttat tgggaatcat ggttctgttg ggc 453

<210> 35756
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D3

<400> 35756

caggaccagg atgaggagat gctggttccg tatcatgatg ccattgaggg tctgcagaag 60

gatgtgcttg agggtccgca gccgatggaa gaatttgcat ctgctgttga gaaccaaatt 120

ataccagata cctccacatc tagatttaca tggtatattg aaaatttctc caaacgaaat 180

gttagaaagc actactctga caattttact gttgggggggt ccaaatggca agtgctcgtc 240

ttccccagag gaattaacgt ggactacctt tcaatgtacc tggatgttgc tgattcgaac 300

ttgatgcctc ccggttgaag taggaatg 328

<210> 35757
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D4

<400> 35757

ctaagctggc gaacttgctg catgcgaagg agctctctag aaggctgaag gaagaaggag 60

gaaacgatca cagttaacag tgtccatcct ggattgatca tgaccaattt gatgaggcac 120

tcctttgttc tcatgaaggt gcttcaggtt gccacttaca tactgtggaa gaatgtaccc 180

catggagctg cgactacttg ctacgtagga ctgagccctc aactcaaggg agtgacagga 240

aagtactttg ctgactgcaa cgtggagaag acgagcaaac tggcgaagag cgaggagttg 300

gcgaagcagc tctgtgactt cagcgaggag ctgatcaagt ctgcgaagtg agagccgaaa 360

gagctggatc agagaaaatg ttgtggtcct gcttggcatc tagtggtaca agtgatgact 420

gatta 425

<210> 35758
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D5

<400> 35758

ggcctctttg ttcctatggc ctgaagctaa tttcgatccg caatgcaggg gatcgtccaa 60

gaaatattgc ttcaactata ctttgtaaga ccaaggaact ggccaacgaa ttggagccgc 120

agattcggca acatcttcta acgcttgtgg atgctgttga agatattatc attcgagagc 180

tgcggtctcg ttaggaccac gctgtcgaca ggaatagctt tgggggataa tagacagcct 240

ctactggctc gtggatcaat gtttcacttt cacattttgt acagaagcga ctctatcacc 300

gttacgcatc tacggctgat ttttttagtg tctggcgcgt tgccagaaaa gagaatcttg 360

ttcaacttta tta 373

<210> 35759
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D6

<400> 35759

gatattcttg attttcattt atttttaaat acttcggcca gtatcggtgg attgcgtatg 60

ggtccatttc cctcggatct tgctttgttg tcatcttctt gattggaacc aaagagccag 120

gatcaattcg gcactgtttg gataagagtc cttccagaat ttcatgggac tactggttca 180

agagagtatt gtactaccaa gttgctctag tctatactct gactagattg gtgaccaatg 240

tttcacaggc atttcttgct ttctatgtaa taaatgattt agaaatgaat caatcctcca 300

aagcattggt acctgctatt atctacatct gcagcttgat agtatctgta atattacaag 360

agactagatg gtcaagttgg cgtcttaagc tttacttttc agatggagca atgctttgga 420

ta 422

<210> 35760
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D7

<400> 35760

gtgagactat ggcatctggg caggctacca ttgcatcgaa ggcagaacct atcgaggatt 60

gcaactcagc tcactccgag gccactgtac agactccaca agaacgtgtt cgccttagtt 120

gtttgcgtgt tctgcatcag cttgcgtcta gtacaacttg tgcagaagct atggcagcaa 180

caagtgcagg aactcctcag gttgtaccac tgcttatgaa agcaattgga tggcaaggtg 240

gaagtatact ggcatttgag acattaaagc gtgtagttgg tgctggtaat cgggctcgtg 300

atgctc 306

<210> 35761
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D9

<400> 35761

cccacgcatc cgctcacact acacaatgtt tatgaccaaa tgcctgaccc taaatgggct 60

cttgcaattt gcagctgttg caacggctgt ccatactacc attactccta ctctgctgta 120

cgtggatgtc accgtatcgt cctctgtgga catctacgtg cctgggtgcc caccaactgg 180

tgacgcactt gtgtacggcg ttcttcagct gcaaaagaaa atcaacacgc gtaacgattt 240

ccttcactgg tggaccaagt gaagcatgct tctgctgttg ctagcttgct acgtttattt 300

gcactctacc tacctgtctt atatgaaata aagacagact gtgctcggat tcacaaatgt 360

gctgtccctg gaaggatgca tgcccacgtt gccacgaaca tataacttgt gtacttggag 420

tcag 424

<210> 35762
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E1

<400> 35762

gggcagcggt atgaggctaa ggagggagtt tgatgattca gtggtgtcat gctatgatgc 60

gggacatttg ctggatacag gttctctgtg cgagggtttg cagccgtggc tgtacagtaa 120

cggcactgga gtgacggtgc aagccgtcga tgcttagaat cgtggtttag atgagctgtt 180

gcgaagattg attaaaccaa ccgtagattt gtcaagggt 219

<210> 35763
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E11

<400> 35763

attaagaaag atacaacttt gcaaggatat ttttaaagga aggcaaagct gtgagtgata 60

gagtaacatg aaaccagagg cgtatctggt gacgatgaga atacaaggag atctagagct 120

tatcactttc caaattttga tgacatcaat attagcatgg taggaaaaaa tatatgcagg 180

cacgatgtat aacaaagccc gtgcagcacc aactagatgt cgtacaatca tgttgatgct 240

ctgatccttc caactgatct ccacgcagca catggtctac aaatctgtcc agtccagctg 300

tttcgcg 307

<210> 35764
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C4

<400> 35764

tccaagtagt tgctgtgatt ctcagtgcta gtatttcagc gggctgattg caaatttgtg 60

cgggtaggac tttggccgct ggacggtgca ctctgcggga tccccaacct cctgctgagc 120

tcccgcacag agggcgggca tggctggaaa gcataccatg attctcatgc aaccatcaca 180

gaacagatcg acgaggacat ttatggacta cgattcagtt aaccacgcgc tggatggaat 240

atgtggtcta tacgaaagga aaatcaggaa cataaaccca atggtcagga acttgactca 300

tgatatcggt gacctgtaca acttcatcga tggcctgacc gacataagtg cactgacgta 360

cgatgattca cttgacgctt tcctgacgta tg 392

<210> 35765
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E12

<400> 35765

atctgcaaag aacaaacgtt tccgctgagg cttagaaatg gtagcaacgg aaattgtgat 60

accggtgaaa taactgtcta tgactactat gcaaagaaag gaatcgatct aaagtattct 120

ggtgatttcc cctgtataaa tacagggaag gcaaagcgcc caacatattt tccaatcgag 180

ctatgctcgc ttgttccgct tcaaagatac accaaagctt tgtctacgct acaaaggtca 240

tcccttgtgg agaagtctag acagaagcct gaagaaagga tgaccgttct aaatgatgca 300

ctgcaacgca gtaactacga ttctgacccc atgttgaggg catgtggtgt ttcagttgct 360

ccaaaattta cccaaagttg aggaaggatc cttcaagccc caaagctgaa agccggcaat 420

ggtgatgata tcttttcacg aaatgga 447

<210> 35766
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A9

<400> 35766

cccacgcgtc cgggcaagcc ttctcggcac aagatccagg gcgtcgggcc gggattcgtg 60

cggaagaacc tggacacctc tgtcaccgac gagatcgtta cggtgaccgc agaagatgcg 120

atggcgaacg ccaggaggtt ggccagggaa gagggtctgc tagtgggcat atcgtctggg 180

gcgaatctgg cagcttgcct caaggtggcg tcgagacagg agaaccgagg gaagatgatc 240

gtcaccgtgt ttcctagcgg tggcgagagg tacatgagct ccgatctctt cgcggatgca 300

agggaggagt gcgtcgccat gaccttctga tcttctggac gctctgtgcg gatctgcagc 360

ggcaaactgc tatttctcag cgtggaatgg atttttagta tcgtcgatcc aatccagcag 420

<210> 35767
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B1

<400> 35767

gccaggcgtt ctgatcgacc ggcatatctg tctgatactt ctgcaccagt catcggacca 60

ggcgggtgcg catgtcgacg atgcctcatc acttaaacac cttgctggtc tatgaccttg 120

tgcatggtac agatccatat cggggctata gccctttgca agcatgacga tgcatgtctc 180

ccccttgcag aacatacaac accagggccc tgctgctaac caaaaccaac gcctgatgcc 240

tgattcatcg atggattacc ctggaaatgg cgtccacaag gatgtacagc tcctgaacaa 300

gttctgaatt catgtccctg atatgcatga cctagttaac ggcatgttca gtctccacgt 360

aatgggcatg ttcggttccc cgggaatggt cgatctggaa tgaatcctgg ccggagttct 420

tcactaatta tataagcttt gatcagttgg aa 452

<210> 35768
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B10

<400> 35768

cgacttaccg cagttggctt aaaattgaga tgatgaatgc cgctgtttct cctgagatgc 60

tggcggcaga ggaaaagggt caagctgttg ctgcacctaa agaaacactg aacttggcat 120

gttcgttact acgccaggat ggaagaccat ggctgtatgc tgtcgagagc agtccatttg 180

aatcccccga tgttattttc cttgagctgc atgcttctgc aatgctctgc ctaccttctg 240

gagaatgtct gttaccagat gcaacatcat gcacagcttt gacaagtgca ctatattcaa 300

ctgtcagtga agatgatgtg ctgcat 326

<210> 35769
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B11

<400> 35769

ccttcgcctc ctacggcgag atcctcgact tcaaggtcat caccgaccgg gagacgggga 60

gggctcgcgg cttcagcttc gttaccttct cctccgagaa ctccatgctc gacgctatcg 120

agaacatgaa cggcaaggag ctcgacggcc gtaacatcac cgttaaccag gcccagtccc 180

gtggcggtgg cggtggcggc ggtggctacg gcggccgtcg cggcggcggc ggctatggtg 240

gcgggcgccg tgaccgcggt tatggcggcg gtggcggcta ccgcggtcgg cacgagggtg 300

gtggcggcgg ctac 314

<210> 35770
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B12

<400> 35770

gtcgcgctag actatgaaca agaactcgag accgccaaga gcagctcatc agttgagaag 60

aggtacgagc tgcctgatgg gcaagtgatc accataggcg cagagcgctt cagatgcccg 120

gaggtgctct tccagccatc catgatcggt atggaagctc caggaatcca cgagacgacc 180

tacaactcca tcatgaagtg cgacgtggac atcagaaagg acctgtacgg caacattgtc 240

ctcagcggtg gatccaccat gttcccaggc atcgctgacc gcatgagcaa ggagatcacc 300

gcgctcgcgc caagcagcat gaagatcaag gtcgtcgctc cgccggagag gaagtacagt 360

gtctggattg gaggatcaat cctcgcatcc ctgagcacat tccagcagat gtggatctca 420

agggctgagt atgaggagtc tggtccagct 450

<210> 35771
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B2

<400> 35771

ctccgatcac catacaaccg tgaccggagg tatgatcctg cactgccctc actattacgc 60

ggcgggtgca cattcccact atgcctgatc acttaaacac cttgcttatc tatgaccttc 120

tgcatcgtac agatccatct cggggctata gccctttgca agcacgacga tgcatatttc 180

ccccttgcag aacatactac accagggccc tgctactaac caacaccaac gcctgatgac 240

tgattcattc atgtattccc ctggctatga cgcccacatg gatgtacagt ccctggacaa 300

gttctgaatt tacgtccatg atattcatga cctacttaac gtcatgttca ctctcacgta 360

aatagtcatg ttcgctttcc cggaaatggt tcttctggaa tgaatcct 408

<210> 35772
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B3

<400> 35772

ctcaggccaa ctctttagcg aatttccgat ctgctatcca cacccagatt cataagcatc 60

gtggtgatca aggatctcgt gaacgtggac gatgaaaccc tagagatcac catggagatc 120

aggactgtat acagtactgt ctgtcctgtg gccatctctg agaatgtcta gggcccagtg 180

taccacccaa ttgtccacat actacttgaa tatcgcatca ctcatcgcac tcatgtcctt 240

gaacatgatc tagaaaaagc t 261

<210> 35773
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-056-Q1-K1-B4

<400> 35773

ggacagtctg aagaagacat gctgcagtgc ttcattgatt ccaagtacaa gaatgggcgt 60

ggcacgagtg atggcgaggt aaccgggcta cttatcgcag cactcttcgc tgggcagcac 120

accagctcta tcacctcaac ctggactgga gcatacatgc ttcggttcaa gcagtacttc 180

gcagaggctg tagaggagca gaaagatgtc atgaaacggc acggcgacaa gattgatcat 240

gacatcctcg cggagatgga cgtcctctac cggtgcatca aggaagccct acgtctacac 300

ccgtcgctaa tcatgttgct tcgtcaatca cacagcgact tcaccgtgac aacaaaggaa 360

agcaaagtgt atgacatccc caagggccac atcgtcgcga catcaccatn cttcgncaac 420

aggctgtccc acatctacaa gaaccctgac tcatat 456

<210> 35774
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B5

<400> 35774

gcgtgggcgg actcgtgggc tgacttcttg cggcgacgcc tatcaccgga gggtggtcaa 60

catccacgcc cacccgcgga ctcccttcta ctgggagttc ctgcacgcgg ccaatgccgt 120

gtagatgctg cacctgctag ccttcgcgct ggagccgccg tccatccact tcgatgccag 180

acgcggtgcg gagttccacc aggagtacat ggagagcgtg acccgcgcgc cacctcacgg 240

cggcgcggac ctggtcgttg ggttcgccgt cacgcccggg ttccggctgg ggaacggagc 300

catcgtgcgc ccccggttct acctggtacc gcgtggtggc cgaccgttac agacccatgc 360

atggcgtgac agacc 375

<210> 35775
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B8

<400> 35775

ccttgctcgt gctcttctgg gcagaaatat accatcaggc taggagtctc ccaacggaca 60

ggctaaggcc tgcatacatt gccgttaacg ccatcatata cgttgttcag ctttgcatat 120

ggatatacct cggaataaat gataatgccg cggttgagct ggccagcaaa atattcgttg 180

tagctgtctc ctttgttgcg cttcttgggt tttcagtata tggtggaagg ttgtttgtct 240

tgctgagacg tttccctatt gaatctaagg ggcggcaaaa gaagctgtat gaagttggga 300

ccgtgacagc aatttgtgtt acctgctttc tgataagatg tgttgtggtc acgctatctg 360

catttgatgc tgatgtatct ctcg 384

<210> 35776
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B9

<400> 35776

ggaaggcttt cttgcactgg tacacgggcg agggcatgga cgagatggag ttcaccgagg 60

ccgagagcaa catgaacgac ctcgtgtcgg agtaccagca gtaccaggac gcgactgccg 120

acgaggagga gtacgaggac gaggaggagg tgcaggccga tgacatgtga ggggagggct 180

gttatcgtgt gaagccttgt ggtccctagg gcaagcggac ctcgatgagt tcggtgttcc 240

ctttcgtgtt gttgccatct ttctactgct agcgtaccca ccctcgtggc ccattccgtc 300

gcttgtgacg tatgtatttt tcttgtgcta tggaaccttg cttttggtac ggtactatcc 360

tgctagtatg cttgggcgt 379

<210> 35777
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C1

<400> 35777

cccacgcgtc cgcgagaggt taacaagact atagtccagc agactgaagg aaatcgtcat 60

ggaagggatg gcagagttag aagcgatctg ccagaatgca cacatagaac ctgatgtcag 120

cacggcccct gaacagactg atgctttgat cgattctggt tgcctcatcg acccttctga 180

gctcctggcg aatattgagt cacacatatt aaaagcgaaa gaagagtctc ttagtcggaa 240

agatataatg gacaggataa atagatggat tgctgcttgc gatgaagagg cttggcttga 300

aaaatataac caggacccaa agaggtacag tgctggaaag ggtgctcata taaaccttaa 360

acgggcagaa aaggcacgga ttttgggtag aaaaatccca 400

<210> 35778
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C10

<400> 35778

gtacgacagt tgagacttct aagtttaaac atgcgcctcc caggtctggt gttagcaggg 60

tggttccttc accttcttct gaattgatta gcaaatgggg tgtatatgga aacatatgca 120

gaattgataa gccttgtgtg gtagatgaga tccatcttcg aagatttgat ggcatgttgg 180

aacatgaggg ggctcatagg tgtgtttttg ctagtatcac tgtgaaagca ccggttcgag 240

aggtatggaa tgttctcaca gcata 265

<210> 35779
<211> 313
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-C11

<400> 35779

cccacgcgtn cgagcacctt gcccatatgg ttgtggcggc ggtgggggtt ataatangtc 60

tggtggaggt ggtgggggat acaagccata cactggtgat tatggttctg gaggaggtgg 120

tggcttcgac agagatggcg gagactacaa ttctggtggg cgtggtggtg gatgcggtgg 180

cagaggagga tacaatcaaa gtggtggtag tgaccgtggt tatgatgacc accgtggtgg 240

cagaggtggc agctatggag gacgagacca atagaaccaa aagggtagtg aaggtggcta 300

caatgcttgt ggt 313

<210> 35780
<211> 197

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-C12

<400> 35780

acaacacatt cnatacattt tcctcataac ttcagcctgc aagatgactt ataaacaggg 60

tggggtatac actctcagat acatccaata aaacaagaca cctttccctg tacacactca 120

atttttaaac accataatcg ctaacatcaa acctattttt actacccgca cattcacagt 180

actcaccaaa atcctat 197

<210> 35781
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C2

<400> 35781

cttatgttca tacgacaatt atcatgtcaa ttttatctat catatcagtc gtcaaggatt 60

tgttaggagt ttcaatctct actagtgtct gtttcaaaaa tattatcagt aagtcgcatg 120

atctttatta cagcacacta aaagcattaa tattactagg ttgatgccct tgctatcaat 180

atagctgtcg attgatctgt tacattttct aaaatatttc ctattattct ctgatttttt 240

atgatttttt gaacaatttt gtctcatgaa gcgtttttag ccccttggat gccaaacatt 300

ggcaagtaaa tacaatgcag gttatgacaa ctttaattct ggcatttgtt ttaatcatta 360

tctgatctgc aattaatcta tcacaagcac attc 394

<210> 35782
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A8

<400> 35782

gccacgcgtt cgcccacgcg tacgtgccaa tcccccgctc tgccgactac cgccaggccc 60

gggcgccagc ctgcaaagtg caaacccagc tagagcttag agctagcatg gagtccggcg 120

ccccgtgccc gctcgcgcac gcgcaccccg tggacctgcg ctggctgctc tcggtcgccg 180

tcggcggact cttcgcgctg atgctggtgc ttctggccac ctccccgtcg ttccgggtcg 240

cctacacctc gcccttcccg cgccttttta ctcggccccg cg 282

<210> 35783
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C3

<400> 35783

tgctaaggga gcatacgtct gcgcttttaa actgtatcga ttcagcattg atgtcaaatc 60

gtgaggcctt atagggccta gctggaactg taaattccgg cgataggatt gaaagggatg 120

tgaacctgaa acaaattatt gacctcgaaa cactggctga cctctgtatt caagcagggc 180

aggcaataac tttccgtcgg ctgttggttg aagccgtcgg agcagtcctt gaagagaaag 240

tgcctctgat atattctctg ctcaaaagat tagccttgca gttgccagac gaggtacctg 300

ataaaaatga gataattaga ttgagaaagg ttgcgagcag tgttggtgtt ggcgacaaac 360

atgatgctga atgggta 377

<210> 35784
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-H12

<400> 35784

accggaangg aagggncgac ccgagcgagc ggntgctcag aactgctggg tgaagaaggg 60

ttgtgcattc actggtgaaa ttagtgctga aatgctggtc aaccttggcg ttccctgggt 120

cattcttgga cactctgaaa ggagagctct gctgggagaa tcaaatgagt ttgttggaga 180

caaggttgct tttgctctgt ctcagggact aaaggtcatt gcatgtgttg gtgagaccct 240

tgaggagagg gaggctggtt caaccatgga tgttgttgct gcacaaacaa aagcaattgc 300

tgagaagatc aaggactgga gcaacgttgt tcttgcctat gaaccagtct gggctattgg 360

aactggcaaa gtcgccaccc cagc 384

<210> 35785
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-H3

<400> 35785

aacaatttta tctcatggga aagaagttca cacagactat tctgttactg gcattcctgg 60

ggatggaaga tgcctgtttc gttctgtggt tcacggtgcc tacattaggt caaggaagcc 120

catacctaat gaggatcatc aaagaaggct agctgatgag ttgagaacaa aggtcgcaga 180

tgaatttatc aagaggcggg cagagactga atggtttgtt gagggggact tcgacacgta 240

cgtatctcag attaggaagc cacaagtctg gggaggcgag ccagagctgt tgatggcttc 300

acatgttctt cagatgccaa tcaccgtcta catgcatgat aaagccgctg gtggtctaat 360

agcgatcgcg aaatacggcc aagagcatgg gacggaaagc tccgtccaag ttctttacca 420

tggntatggc cattatgatg cgc 443

<210> 35786
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H4

<400> 35786

gacccacgcg ttcgaacaat cgtatctcat ggcatagaag tacacactta ctatactggt 60

actggcatta ctggtggtgg aagatgcctg tttcgttctg tggttcacgg tgcctacatt 120

aggtcaagga agcccatacc taatgaggat catcaaagaa ggctagctga cgagttgaga 180

acaatggtcg cagatgaatt tatctagagg cgggcagaga ctgaatgggt tgctgagggg 240

gacttataca cgtacgtatc tcaaattatg aagccacatg tctggttagg cgagccagat 300

ctgttgatgg cttcacatgt tcttcagatg ccaatcaccg tctacatgca tgataaagcc 360

gctggtggtc taatagcgat cgcgaaatac tgtcaagaac atgggacgga agctcccgta 420

caagttcttt accatggtta tgggcattat gatgc 455

<210> 35787
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H5

<400> 35787

cccacgcgtc cggcaaaagc aacaaggcag cagcacaagc aagaaccaca cctcctcggt 60

gcgcctgtga tcatgtcgtc ttgctgcggc ggcaagtgcg ggtgcggctc cagctgctcc 120

tgcggcagcg gatgcaacgg ctgcggtatg taccctgacg tggagaccgc cgccaccagc 180

agcgtcaaga ccacggtcct cgccgcgccg accaccaagg ccagcgccgg cggcttcgag 240

gcggccaccg agggcggcgg ctgcgactgc aacacctgca agtgcggcac cagctgcggc 300

tgctcctgct gcagctgcaa ctgagccggc ccggctcggc gatggcgcac gagagtcgag 360

aggacgacga cgaggaggcg tataataaat ataatagcgg cgtccagtaa ataagatcct 420

gtcaactgca cccgccatta tccatggtcg ctcg 454

<210> 35788
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H6

<400> 35788

gggaatattc ttggtttttc agctggagct agtggcgaat ggcacaagtg gtttccattg 60

ctaacgacaa gagcatgctg tgaagcttgc ggtaattcga aagtagcttt cttagttgca 120

tgagtatttc tttcgttatg tatgtctgtt accctgtact tcgctgaaga gagcccacta 180

gatccaaaag atacacactg actatcagat tctgctactc tagtgaacgg ttctagaaat 240

gctgcccatg catcaaatga tccaaatgat gcaagatttt ctaatggccc atgtggttta 300

aacaatggtg cggctaacaa caacactgac gaatttacca atgtgaattt caactcagag 360

aatggacgag tcttcaatga t 381

<210> 35789
<211> 413
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H7

<400> 35789

cggacgcgtg ggcggacgcg tgggcggact cgtgggctcc gccgccgaca acagcgtggg 60

gtagtgtagt tccggagagg gttggcgaga gtagtagtga tccgcaatgt cgacggagga 120

ggctgttgtg gctgaggtcc cggtgaccga ggtgccagcg gaggtcccgg cggcccaggt 180

ggccgaggcg cccaaggcga agaaggcgcc caaggagaag aaggcgccta aggagaagaa 240

gctttccgcg gcgaagaagc cggcggcgca ccctccctac gctgagatga ttgtagaggc 300

gatcgctgcc ctcaaggaga ggaaggggtc gagctcggtg gccatcagca agtacgtcga 360

ggggaagcat ggcggcaagc ttcccaccaa cttccgcaag cagctcactg tgc 413

<210> 35790
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H8

<400> 35790

ggacgaattt tctaagttcc aaaacttttt ttcatccaaa tttcggggaa actgagttag 60

gctgcttgag tgacgcctag gtatctactc tggaacgtgt ccttgtaaat gccttaatgg 120

tcaatctgag ttttttttcc ccttgattat tcttcgctca tgtatgtttc caaattccaa 180

ggtagcggtc tgcgagagtt gatgattcta ccttgacata tcgaacccaa tttgtaaata 240

aggcgagcag cttgtacttc gttcaactga ctggatcttc cgagttttac ccacagaccg 300

agccccgta 309

<210> 35791
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H9

<400> 35791

atcctgagcc agagatcaaa caaaccagat gttagctaag catggcggca ggcttgcagg 60

tgtgggggga gccggcgtct actgatgtct gcagggttct gacatgcctg tttgagaaga 120

aactggagtt cgatcttgtc cgcatcgata cgttcaagac gcatcacaag cttcccgagt 180

tcatcaggct tcgggatcct aatgggcaag tgaccttgaa gcacggcgac aaaactctcg 240

ttgattcgag ggacatctgc cggtacgtct gcacccagtt tccaaacgat ggaaacaaga 300

gcctttacgg atccggcgct ctagaacggg cgtcgataga acagtggctt caggcggagg 360

ctcagaactt cgggcccccc agctccgcgc tcgtctttca gctggcg 407

<210> 35792
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-A10

<400> 35792

cggacgcgtg ggctgcattc tcaagctggg atgcttttaa atctcactac attttgcgga 60

tgggttgggc gctcgctata tcacgcactc gtcgttttct tcattacgat atgcgcctac 120

tcagatgaga aaagtgagat gcacgaactg tcaatggtag cactgtccgg ttgcatttgg 180

ttacaggctt ttgttgtgac aatggataca aactcattca cttgcccgca natccttctc 240

atctggggaa actttgtggc cttctacatg atcaacttaa tactcagtac cgtcccaagt 300

ctccaactgt acacaatcac gttccgcctg tgtagccaac cttcctactg natctccatg 360

gctc 364

<210> 35793
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-A11

<400> 35793

tttgtgtttt catgtgcttc aaggtgttag gtaagaatgc agacgaggaa accatagga 60

cggcctacag ccaagttcta tcaccctgat ggcccanaac tcatgttttg ctaagtcttc 120

tccacctaag tcctcaaaaa tttgaacaag gccatattat cagataaaag cagatgtagc 180

tttcatagga cttagttcca gcaaagcaaa ggttgacatt gcaccaaaca atagcgtcta 240

tacttcattc ttatggcttg gagaagccta tgcaacatga caagccagat gacatgtaga 300

tgagaaggtt ctgcatcaag agaaaccaaa gcaaaatctt tgcatcaaga gagcaccgat 360

gaaaagctga tgtagaggcc agntgacaaa cttatggaag accagctgac caaataattg 420

aaaatcta 428

<210> 35794
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A12

<400> 35794

gtcgtgtccg ttcgcgatcg ggcaaatctg caacccttтc ctcttcgtcc ccccgctcgg 60

tcggtgcccc aagccggagt acggagtacg gcaatcgcac ccccgtcgtc ccgttccttg 120

ctcgccccaa cttcgccgcc gcgtacccct cggcttctag tgatgtctgg tggtaacgcg 180

tgggcgccgc tcccttcgca cggatttgaa tccgactccg gcggcatggg g 231

<210> 35795
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A2

<400> 35795

gtcggcgcgt gagcagcggt gggcgccgtt cgggacgcac tttcaccagt tcgtggtgcc 60

ggccaggatc ggcttccggc gggactgcac ctacggcaag ctggccgcca tgaggctgcc 120

caaggacgtg cagggcctca gctcctgcga gtacacgatg gagcgcgggg tggtgcacgc 180

gtgccacgcc ggcggcgtgg tgcacttcct ggaaggctgg ggccaccacg aggtgggcgc 240

catcgacgtc gaccggatcg acgtcgtctg gaaggcggcg ctcaagcacg ggctggcgcc 300

ggtgtgatca tatcgcatcg tcgagccgca ccgcgcgcgc ggtttgtttt gcagcggcta 360

cctacctagc tgcatatgct tgccaggccg gtgtccagcc gtcgcggttc tgtgtgcatg 420

catgcaacag cccagcagac cacgggctac cgtgc 455

<210> 35796
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-A3

<400> 35796

cggacgcgtg gtcggacgcg tgggcctgga ttgtcacaga tggcaggtat attgatcaag 60

agtggtgagc tattctaagg aagcttgtga acaatatacc tgctgtcctg gagtgtcaca 120

gatggcaaag atttgcgctt agggaaggag gaagaatggt cggtgctgga gtcgtctcca 180

aagttcttag ctgatcagtt tctactttct tctccgtagt ctggttgcaa ctgttgatgg 240

ttagcacatt ctttatcttc aattattgga agaaacattt ttgcgccaat tacatgaaag 300

tggttgcagt tttaagggtc tgttcaatcc ctctccaaga tattgtaagt gtatgaaatc 360

ttctaagcaa actgttaaat acattgcacc cgatcaggta tataagcana gactgtattc 420

tctcattact agacaaaaaa aatgaaagga 450

<210> 35797
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A4

<400> 35797

ccactcgtcc tcccacgcgt tctcccactc ttgctcctac atattctcag atggcatgca 60

tattgatcaa cagtcgggtt ctattctaac gaagcttgtc aacaatatac ctgctatcct 120

ctagtgttac agatggcaaa gatttcccct taatgaatga ggaataatag tccgtgctct 180

actcgtcttc aaagttctta gctgatcaac ttctactttc ttcttcgtag tcatgttgca 240

actgttgatg cttagcacat tctttatctt caattattgt aacaaacatt cttgctccaa 300

ttaca 305

<210> 35798
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A5

<400> 35798

atccggcgca atacaatttc ttgacatgac tggaatgcta aatctggagt ctacgcgcag 60

ggcagcaaga tacacctgaa tcgaagtgaa cactccgata ctggacgcat tactcacgct 120

catgtgccta catcaacatc ctcaacggat atacaactgg gtgcttctac gtcgatggga 180

gcagcacgac attttaacga ttacgaagac atattgcaaa aatggcacat attaacctaa 240

ctactggatt cacatgaagg atgcagtgat ccttcttaaa ctggactgaa ttgcacaata 300

tgccctgtga aatctaaa 318

<210> 35799
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A6

<400> 35799

ctgacgcgtg ggcggactcg tgggcttacg tttagtccga cgcctgggct gactcggggg 60

gtcgatcgcc aataatggag tttccgtacc accaccacta ccacagccat cgccgatact 120

actacgaata cgaccgcata ggcccgcctc ccccggtcta ctgcggctac ggccagccac 180

cgacacccga cccgtacggt cgcgcgcccg ttgaccccga tccgtacggt cgacctccga 240

cccagtccgt gtacatgagg gccgg 265

<210> 35800
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A7

<400> 35800

gagctctgcg cgagcaaccc gaggttgtct tcgttctcgg tgctcatggt gacgtgtctg 60

gtgttcatcg cggcgacggt gtgtgccttc tacgcgctgt gcctccgcga ccagctgagc 120

tactccttca ctggcggcga ggtcctggcg cgcgccgtgt ccgacctctg gccgctcctc 180

tgcgacacac tcgtcctcaa cggcctacat gcagtcctat ccgacgtcct catgccctac 240

tcatggcag 249

<210> 35801
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H11

<400> 35801

gggccgcact gcgcaacgag cgggcgccgg tcggtcgacg aagcggcgag gcagtcactc 60

gggagagatg tcgggcggca ggaggagggg gcttgtgtgg agcctccccg tggcgaggtc 120

ggatgcgctc ggaaaactgg gccctgcctt cggcatcggc gccggctgcg gcgtgggtct 180

tggcttcggc ctcatcggag gtgcaggcat cggagctgga ttccctgggt tacaattggg 240

gtttggagct ggagctggat gtggaatatg aataagtttt ggttacggct ttggaaa 297

<210> 35802
<211> 133
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-F5

<400> 35802

cccacgcgtc cgcccacgcg tccgcccact cgtccggtgt tactgtatga tggcaaggac 60

gttttgctgc cgaaggttat gttttgaagt tcatgctacc ttttaaagta cggattacct 120

tgtgcctatg ttc 133

<210> 35803
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-F6

<400> 35803

cccacgcgtc cgcccacgcg tccgcccact cgtccggcca cgcgttctgc ggattctgcg 60

ggagatcaag cttatgagac tcctaagaca tccagatatc gttgagagca cacatattat 120

ggtgcctaca tcaagacggg aattcaaaga tatttatgtt gttgatgaac ttatggagcc 180

tgatcttgac cacgttatca tggctaatga tgacctgaca ctggaacatt atcagttctc 240

tctgtaccaa ctgatccgtg ctgtgaaata catgcacaca gctaacgtat atcaccggga 300

cctgaagcca aagaatatat tagcaaattc taactgcaaa ctgaaaattt gcgattttgg 360

actagcacga gttgcattca atgataccgc cacaaccatt ttctcgacag attatgttgc 420

aacangatgg tac 433

<210> 35804
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-F7

<400> 35804

cgcacgcgtg cgttcgagga gggcacccgt tatcgtccct atggccactg cctcgtcgcg 60

gggggcgtca agtacccaaa gaaggtgatc cgcaaggact ccgccaagaa gactgcgaag 120

aagtcgcgcg tcaagtgctt catcaagctc gtcaacttca ctcacctcat gcccacccgc 180

tacaccctcg acgtcgattt caaggatgtc gccaccggtg ggcccgacgc actctctacc 240

cacgacaaga aggtcgccgc ctgcaagacg gccaaagcgc gccttgagga gaggttcaag 300

accggcaaga acaggtggtt ctttaccaag ctccgcttct agatgctcgg ccttccgaat 360

agtcctgctt tagctgtcga tttgtttgat cgggcacact ccatctctgt tttcgtttac 420

catgaatatt tc 432

<210> 35805
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-F8

<400> 35805

cccacgcgtc cggaagaatc tttactgggt tgacagtggt gatttagtaa caattgcaag 60

ggatacgtca ttctacattt tgaaatataa tagggatgta gtttcatctc atttagacgg 120

agggggttca gctgctgagg aaggtgtgga agatgccttt gaactgcttc atgagatcaa 180

tgaacgtgtc cggactgggc tatgggttgg tgattgtttt atctacaaca attcttcgtg 240

gcggcttaat tactgcgtan gaagagaggt tacaacctta tttcacttgg atcggccaat 300

gtatttacta agatatcttg caaaccaaag ccgtgtctat cttattgata agcaatttaa 360

tgttgtgggg tatactttac tccttagttt gatcgagtat aaaacacttg taatgcgtgg 420

ggattttgat cgtgcaaatg atgttttatc atcta 455

<210> 35806
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-F9

<400> 35806

gacccagcgt ccgcccacgc gtgcgcnnac acgtttatgc aggtttattc cgtcagtgtt 60

gagactgttc tcatgggaag atatattcaa gtcatggacc atgactcctt gacagntgtc 120

aaacttaaga tgacactgtg agctgatgac aatagtgata ccagccacta caacgttgaa 180

actaccataa aacctcaatg cctgcatcaa gtttaatctg tggcattctt tcaaactcca 240

catcttactg catgaaagca tccaaagctg gtgtgtctat gccgctatat gccacaatca 300

tgtgagacgg aaagaacaag acaaagcaag gaacagattg aaacaaat 348

<210> 35807
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-G1

<400> 35807

cggacgcgtg ggcggacgca tgggcggact tcgttggcgg actcgtgggc ggacgcgtgg 60

gcgagatgtg tcgttcgttg tatcatgtat gggtgtttat ggctttcggt ctactagatt 120

tttgtgagaa aaaaaaagct taataaaaca caaaaaattc actcacctaa tacccacccg 180

atacacccta gacgttaaaa tactatgatg tcatcaccgg agggcccaaa aacactctct 240

acccacgaca agaatgtcga cgcctgcacg acggccaaag cgcgccttga tgagatgttc 300

aatg 304

<210> 35808
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-G10

<400> 35808

tcgtccacgc nnncnnncac gcgtncgncc acgcgtccgt ccacgcgtcc gcttttgttg 60

agtttgttcg tgctgagggt gccatcatgg ctctgaattg cagcgggatg attttgggaa 120

ctctgcctgt cagggtgagt ccttctaaga ctccggtgaa gccacgtgta aatcgaatgg 180

gatctaactg actctgccta agctcaaccg gaaggcatgg ccataagctg aaggcttccg 240

tggtcctgtg catcatgatg catttgctta cattcttaca aacactctgt ttgtaccctt 300

ttgcaaacct gttgngaggg aacttggtag gtcaggccct tttgccttgc attttaaaca 360

tgatggaacc attgagaatg actattccgc aattaaccat caaaagtact tctgtc 416

<210> 35809
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-G11

<400> 35809

cactgccagg agagcttgct gcacggtctg atacgcgtgg atgagctgta ccgttcttac 60

aaagtctgta cacgcgggat ggacttcaat ccgggagcat cctaccagac aacttatcac 120

ccgtctagta gtgtttatgg tgaaggcatt cagaggccag ttttggcaag gggtaatggc 180

ccaagtgtgc ctgtgtccag ccgttattcc tttaatggcc caccagcata ttgatggatt 240

gcctagatgc aagcactcaa at 262

<210> 35810
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-G12

<400> 35810

cggaatggaa ngggncggag cccgacgccg tccgcacttg nnagtgagca tgccanncan 60

nggagcctgt cttagcttat gcctnnagta caggtngnng agtggaagtg tggtggtggg 120

gatgtgtcaa accccaaatc agaaccgaan aaaaaagaaa agcagcagct agaagaaaga 180

agaacaccca ctctaccagc agcaagcagg caatcaagca accagcannt aacgaaatgt 240

cgatccaagt acctgcgacc agcacaangg accctgcgag cggcagcgtc tgtaccgtcg 300

cttctgcgcc gccctggtgg gcgtcatcgt gctcgtcctc ctcatcgtgc tcatcgtctg 360

gctcgtcctc cgccccacca agcctcgctt cttcctcaac gacgtgagca tcgtgtgca 419

<210> 35811
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-G2

<400> 35811

cggacgcgtg gggttttgcg tggtcagatt cttatcgcat cactggtaga aaacattcgg 60

ctgtgggact aaaaaaatta actagaagac agcagagaca attgtagcac tagcatacca 120

acgacagatt gcataatatc ataagtggta agacccacag aacagacccg atgtattctc 180

tct 183

<210> 35812
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-G3

<400> 35812

aagttttgag ggtagagcag ttgggtgatt acgacgaaga gagatgggcc tcctcgacaa 60

gctgtgggac gacaccgtcg caggcccgcg cccggacacc gggctcggcc gcctccgcaa 120

gcagcctgtg cgtcccgccg ccgtcaagat cagtgatccg gccggggacg ctgcggcgtt 180

cgtgccgccc tcgccggctt cgggtagcga ggagacgccg gtgaaggtga cgcgcagcat 240

catgatcaag cgccccgcgg ggtacccgtc gtcgccgagg agcgcggcaa gcacgccgtc 300

ggcctcgcca ctggggacta cngccgccat ctcgccgttt gccggcgccg gtggtcgctt 360

cagaaggaaa tcatcgtccg acgcata 387

<210> 35813
<211> 112
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-G4

<400> 35813

aaagacggcc gaccgcggag aaaagtttag tgcacttcta gacacgactt gtgagctaca 60

tagtcaggcc catgagttca agaaacaggg ggtgtagatt cgtcggaaga ca 112

<210> 35814
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-G6

<400> 35814

cggacgcgtg ggtaaaacgt taaaagtgct tgcccaagtt tcagaagtta aaaatatgag 60

gttaaacaac atagaaaaga ctttggaccg cggagaaaag ttgagtgaac tccaagacaa 120

gacttctgat ctacatagtc aggcccagga gttcaagaaa caggggggtga agattcgtcg 180

gaagacatgg ctgcagaacg tgaaaattaa gctggtgatt cttggaatcc ttttgctcct 240

tgtgatcata gtctgggtat ctggttgtca aggctttgac tgcaccaagc atgaaacata 300

gtagtaataa gaatggtgca acacgactgt ggcagagctg cgatggatgt gagtttgtgc 360

tggtgaagtc aagtgtgtac ccacatatgc tttggctctc aagttcgatt ccaccagaca 420

agtatcacgg tacaaatgta agtccgagct ggtctt 456

<210> 35815
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-G7

<400> 35815

gaaacaataa cttaggtcat ctgcgaccac tctgagcctg ggagtcaaga ctggcctgcc 60

agacatctgg cacagcaagg ctagcaaccc cttcgttaac ttgaagaagg aatacaaggg 120

catcttctgg caggaggaca tcatcccctt cttccagaac gtgaccatcc ccaaggactg 180

cgacaccgtc caaaagtgct acatctacct ctctggacaa gtgaaggaga agctgggcac 240

gattgacccc tactttgtca agctcggtga cgccatggtc acctggatcg aggcctggga 300

tgagctgaac ccgtcgaccc ctgccgccgc aaatggcaag gccaagtaga tgtgccatca 360

cttcggcact ggagtgaaaa agaaagtatg attgggtcct gcctaggccc catagatata 420

gctctttttt gagaaggaag agagattaat tc 452

<210> 35816
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-G8

<400> 35816

cccacgcgtc cgtccacgcg tccgagtcct actaccgact aagaccgact cagctggggg 60

gaccctcaaa ccgcaccagc catggacggg ccgcgttgga cggaagaggt ggacgacctg 120

gtcgacgccg gcgacgtcga cggcgccatc gtcctccttg agtccgtcgt ctacgatttg 180

tcaacctccg ctgctccccc tgccactgac cttcgactcg ccacggcgct cggcgacctc 240

gcggacctgc acgccgtccg gtgagacacc ctccgagccg acgagctccg tgcccgcgcc 300

atccgccttc ggtcccgcgc cacggtccct gggactggga ccctagggtt tggttccccc 360

cctcgtagtc cttggtgctc ttggaaatcg ttggtggaag cccttcgctc aggcctcatg 420

tttcaactgc ttagttattg ctctattggg ctattatta 459

<210> 35817
<211> 259
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-G9

<400> 35817

acaccttggc tacctgatca tggggagttt atcttttaga tagcagggta gtctcaccac 60

cgccagctgt acattcctct gtgcctagtt tccttgnana gatgtatctg gttaataact 120

gataaattcg tcattgattt gatgtagtga attttcccca taggaacgct ccttcttctg 180

tttcatgtaa atgcaaaaca attccaatct tgaattcaga aatgggttac aggcttgttg 240

caaaaaacaa aaaccctaa 259

<210> 35818
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-H10

<400> 35818

cccacgcgtc cgcggactcg tgggcggact tttgtttgaa cagattatcc cacaactgat 60

gggacgggca taatagatta tattgatgtc acanatttag ttgatgctca tgtgaaagca 120

ctcaacaagg cagagcctag aaaagtcagc atttacaatg ttggaacagg aagaggtcgc 180

tcggttaatg agttcgtcga tgcctgcaag aaggcaactg gggttaacat caaaattgag 240

tacctcagca gaaagccagg agattatgca gaagtatata gcgacccaac aaaaatcaac 300

aaggagctca actggacagc tcgatatact gatctttaag agagtctgtc 350

<210> 35819
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-F3

<400> 35819

cggacgcgtg ggttcgagga gggcacccga gaccggccct atggccactg cctcgtcagc 60

aggccttgcc aagtacccaa agatggtgat ccgcacggac tccgccaaga cgactgcgaa 120

gaactcgcgc gtcaagtgct tcatcaagct cgtcaacttc actcacctca tgcccacccg 180

ctacaccctc gacctcgatt tcaaggatgt cgtcaccggt gggcccgaca cactctctac 240

ccacgacaag aacggcggcg cctgcaagac ggtcaaagcg cgccttgagg agaggttcaa 300

gaccggcaag aacaggtggt tctttaccaa gctccgcttt tagatgctcg gtcttccgaa 360

tagtcctgct ttaactgtcg atttgctgga tcggacacac ttcatctctg atttccgatt 420

accatgaata tt 432

<210> 35820
<211> 141
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D4

<400> 35820

accactcgac cgagtactct caataccact tgtttcaggg ccaaccacct catccttgtg 60

gcggccttct agtgctgcgg gggatcccag gtcaaggaca tggtggtaat agccgcctgc 120

tgcttctgat agcagcaaag c 141

<210> 35821
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-D5

<400> 35821

accattttga cattgaccta aacatacctg cagcaccaat agacgacggc ccagtggagg 60

gtaacagaat tgcagtgtgt cctagtgttg ttatcaaggt acaaacagag aaaccatatg 120

aaatagatac aaacaaggta aactcaaatg tgatggagac aactgaagaa catgatccat 180

ccagtgcacc cacacaaaag gttatccctg attttaacat ggcagacttg aacacaatgg 240

atgaatctaa acttcgcaca atcctcgagc atacatcatc attgttgcaa gcacttgctg 300

aagtaaaaaa tggggagtcc aacaactgtg aacaggctaa gtcaagcttt gaagataaga 360

aagtaaacat ggcatactct gacggngcca ccaaatctga gtgcgattag cagtagcttg 420

caagatattg atgtttatac gctaaactgg 450

<210> 35822
<211> 433
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D6

<400> 35822

gagctctgag ctggttgctg ccgccaggat tggaggagtg cgcgcgcgcg caagtgagcg 60

gtcactgagc tgtggacgtg aattgcgatc atccgttctc gctttctggg gctcggctgc 120

tgtggccatg gcgccggcgc cgtcgccgta cgcgcgggtg atggaggaca tggtcaaggg 180

ccgggagtac gccacgcagc tgaaggcgct gctccgggag tcgcccgagg ccagccgcct 240

cgtggaccgg atcttgcacg ccatatccct caccatccag acggcctctc gggcgtggcg 300

cacttggggt acgacgacac gttcgatctg gaagacattg tgttcggctc catcaccggc 360

ggcatgtatg ctgctgagta ctgacggccg gacgacgact gctcgacctg ctgtgtgttg 420

gaggagagta gga 433

<210> 35823
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D7

<400> 35823

gccacgcgta cggccatgtg gaggagggct ttagcgatgg tcctgttcat ggctggggcg 60

gcgctgctcg ccggggctgc cggcgccggc gcgcagcagg gcgtgtggag catcatcacc 120

cggcccatgt tccagagcat gctgagccac cgcggcgaca gcgggtgcca gggcgccttc 180

tacacctacg acgccttcat cgaggccgcc agctagttcc ccggcttcgg caccaccggc 240

gacgagcaga cgcgcaggcg ggagctcgcc gacttcttcg gccagacgtc ccacgaaacc 300

accggtggat gggcgactgc tccggatgga ccgttcgcct ggggatactg ccgggtgaag 360

gaacagaaac agacggaccc accctactat ggacgaggac ccataca 407

<210> 35824
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D8

<400> 35824

cccaatctcc cctacaccag aaaaattcct agttctttgg tccgcgtcag agaggcggcg 60

gcgatgtctg ggcgcggcaa gggcggcaag ggtctgggca agggcggcgc gaagcgccac 120

cggaaggtgc tccgcgacaa catccagggc atcaccaagc cggcgatccg gaggctggct 180

aggaggggtg gcgtgaagcg catctcgggg ctcatctacg aggagacccg cggcgtgctc 240

aagatctttc tcgagaacgt catccgcgac gccgtcacct acaccgagca cgcgcgccgc 300

aagaccgtga ccgccatgga cgtcgtctac gcgctcaagc gccaaggacg caccctctac 360

ggcttcggag gctaggctag gcgcctcttc atagtcgggg actggttagg ggacatgtct 420

ctgtgtg 427

<210> 35825
<211> 148
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-D9

<400> 35825

ggggaaggaa atacataact ntaacttact cattaatttt tacacacgca attacttata 60

atctgccttg cggatttaca acattttgca tccttcccaa ccntgctctt aataatacaa 120

cacttaatac ctatcacaac caattctt 148

<210> 35826
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E1

<400> 35826

tcggagaagt attcggtctt gaagcgacct ccttgattct aatatttgag atgccatcaa 60

gaagctgttg cagtggtcta tatgtcattg acctgtcaaa tgtttgtttg agttaacttg 120

caaatggaat tgtgggatcc tacattggct aaaggaatta agattttctt agcaacatca 180

actccactct ttggacacgt agctactaat tacaccgtga actaccagaa ggccgctatt 240

cagttgagct gcagtggcaa tggatatgga atgcatgcag gcccttcgcc accacgcaga 300

gcagaagcca gcaaatttga tgatgatgtt aatccacgtt acactcatgg atatcaaggg 360

ggtggt 366

<210> 35827
<211> 157
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-E10

<400> 35827

cccacgcgtc cgcccacgcg tncgatgccg tttgcgtaag atctcgccac aaggaggtgt 60

tgagctgttg atggtaaatt aaaattcaaa tgttgcaaaa aatgttttaa caatctgtgc 120

tatttatttg tgaatagaac gcacatttgt tactact 157

<210> 35828
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E11

<400> 35828

accacgcata cgactaaaac gaactcttaa tccacaaatg gaccttaaca ccatgtatgg 60

gcggcctgac gctctgacaa acttccatct cggatgtttc acatgccttg tcgtcagatt 120

tttctcaaac tcactcacat tctgcatata ttgtataaca actaacagat ggctctggcc 180

acagatacac agacacatgg tgtcatggcg gtacccacgg tcttcctgtt gaaaacgcac 240

atatgcatgc caaccgttct ggtaccccat gtgatccaaa ggaaaccaca atatctgcta 300

ccgtgcctga tgg 313

<210> 35829
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E12

<400> 35829

cacgaaggcc accacccacc atcaccccca ctaaaaaagc gaaccgaggg agaggaagga 60

tcggcgcgtt ccggccggag atgaggggcg gatccagacc ggccccggtc gtcctgtttc 120

tcctcgctgc gtccgggatc tgcgcccagt tcaccgcagt gctagctggt gatccccaaa 180

catccaacga tgataagaag gctgaagctc agccaaaggg ccataccggc aaaacagttt 240

tgttcgtcct cctaggagtg ggggctgtca ttctgttgtc atttgttatt atcaagtat 299

<210> 35830
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E3

<400> 35830

cccacgcgtc cgcggacgcg tgggtgcagc cttcttgatt ttgttctaat ctcaaaggcg 60

ggtgataact cttccaagcc tactccagac ttcgaactac tttctcatca cacatgtcat 120

tgcagtgctc taagccagaa ccctatatgg tggcttatgg aagggcctcg gacaattagt 180

catgatttct caaagtctta ttgtgaggct aacctccaat tggtcattca caattcagaa 240

gctcataaga ttttggtgag agtggtcact tttgatgtaa ttccagagaa aactgttcat 300

cctcatgact caaccagtgc tcaaggtgga tggtatgatg tatcactgga a 351

<210> 35831
<211> 195
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E4

<400> 35831

cgcgtccgcc cacgcgttcg cagacacacc tacacatgct tttttacagt attccataca 60

atacacggcg actactttgc catgcctact ccccacttat aactactcac caaacacaca 120

taccagtcta cccctctatg ccagatccct ttatggcccc aaatctattg atcatcacca 180

aacagacatg agttt 195

<210> 35832
<211> 430
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E5

<400> 35832

gcaagacatc tatttggtgc tgtagagatg cgatgggttg acacttactt cccatttgcc 60

ggcccatcct ttgagctcga aatatacttt caggatgatt ggttggaggt tttggggtgt 120

ggagtcaccg agcaggaaat tttgaaaaga aatggcagga gggaccatgt ggcttgggcc 180

tttggattgg gcttggagcg ccttgcaatg gtccttttg acattccaga tattcgactc 240

ttctggtcga atgataaacg gttcacgtcc cagttctcag aaggcaagct tggtgtcaag 300

ttcaagccat tttcaaagtt tcctccttgt tacaaggata tgagtttctg gatcaatgat 360

gcatttacag agaacaactt atgtgaggtt gtcagaggaa ttgctggtga tcttgttgag 420

gaggtaaaac 430

<210> 35833
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E6

<400> 35833

ggtcaagcaa aatgtacatt ggaaagctgt cgacgaatct actcggcaca aagattgcaa 60

gatatgatac ccaggcccca tgcaatgcag cagaacccgg gaaaacaagc cgtcggttct 120

actcccggaa ggtgtcgaca aaggtctcct acatcaccta caacataacg caggtttcat 180

atgagctgaa tgtcttgagt actcggggcc ctaggcggat gaactgtgat atgcactaca 240

ttcctacctc gtgccttgac gctggaggca ctgttcccag ccagctggac agcatgcttg 300

ctcgctctac tgatgagtca tttggcagca tttccttgtt caagtcatct ggagcggacc 360

ggcctatgcg tttcaccagc tcaagattct tcgacatctc aatgagcagc atccgcatga 420

ttggagacac 430

<210> 35834
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E8

<400> 35834

cttatctgtt gttgagaagg cctgtctgat caccaacagc tgtacagtct ccctgacaga 60

ggagagcttt gggaaggatt tatgccctgg agtcaccaaa acactcgcca tcgaagcgga 120

atgttcttag tgacctacgg agtacgaagt gtctcggtgt gcatctaggt tccactgcaa 180

gtatgcccgt caaaattcta aaactgtagt gcttgttgca cggcaatgct attgtaacct 240

ggatttgaat gtatccatct gagctaggtt atgtttcagg agctttctta aactaacgtt 300

gttgctgagc agcatgaaat ctgattagcg caaaaaaaaa aaataataaa aaaaataaaa 360

tttatatgta ttttaatata aaaa 384

<210> 35835
<211> 338
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-F10

<400> 35835

ggaataatct cnttcttcac tctcactaac accagtctag ctaactcttt ctctcctgca 60

ataatggggc gcgcgctcct cctcctccca gccgcagctg gtcgcggcgg cggcggtcct 120

ggcagcggcg ctgctgctgc tggcggcggn ggccgggacg gcgtcngcgg cggtgagctg 180

cggcgaggtg acgtcgtcgg tggcgccgtg cctcgggtac gcgatgggca gcgcggcgtc 240

gccctccgcg gcgtgctgca gcggngtgcg ctcgctcaac agccgcgcgt cgtcggcggc 300

ggaccggcag gccacctgca actgcctcaa gagcatga 338

<210> 35836
<211> 301
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-F12

<400> 35836

cccacgcgtc cgcccacgcg tccgcgctcg ttatcgtcgt caagcccatt atctataaca 60

cgagcaggta catcaagggg gagctcgacg agctcgagcg cgaggacttc ttcaggctca 120

agaagatcca gggctacaag aaaagggaga tcgagcgcca gatggccgcc gccaggctat 180

ttgcggagga acagcttgcc gaggatctcg cgcttaagag gggtatctcc gtgggggctg 240

cggcaaacct gctggttgct ggtggngaga aggacgacga catcatcttc tgaccactcc 300

t 301

<210> 35837
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-F2

<400> 35837

tgaaaatata agaaatgaat taaaaaaaag atcttggctg ccaactggac cgcttcgagg 60

gcgactggcc gagcagccca gctagcaagc cagccagctg tcgtaaggac cgtgggatcg 120

tgcggccagg agggagctga gagatagacc cgcacacgca agttgtgaga gagggagaga 180

aggagctgaa gctgaacggc ggcggcgggc tgaacagact ctccgagatc ttcggcgaga 240

ttagtctggg ctgatgctca tccggttggc tcctcccctt ctcagctcct taaaggcatg 300

gcgcgtgtac cagagtcggc tcctctcggt ttttctttct ccagtttgct gttccagtca 360

caagttgatc gatccgttcg gtccctgtgt 390

<210> 35838
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D3

<400> 35838

acaacctgaa caactggcga gaagagtttt taattcaggc tagcccatca gatcctgatg 60

agtgcccttt tgttctgttg ggtaacaaag ttgatgtaga tggtggcaac agccgcgtgg 120

tatctgagaa aaaggcaaag gcatggtgtg cttccaaagg gaacatcccg tactttgaga 180

cgtctgctaa ggacggaacg aacgtggaag acgccttcca gtgtatcgtg aagaacgctc 240

tgaagaatga gccagaggaa gaactgtatg tgccagatac cgtggacgtg gtgggtggca 300

accgggccca gagatcatct ggttgctgtt aaggcacgag gcatcacgag gcgttgtgat 360

catcatcgtc gggtatgcag tgaccaaaca atacc 395

<210> 35839
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B3

<400> 35839

aacacacgcc ttgcaggatt gttgttcact tgattttact tgtaccgcgg ctttggagtt 60

gcgcaaatga ctttgttcaa gaacttcttc tctcacagga aataacatga gtgcagtccg 120

tgcttttatc t 131

<210> 35840
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B4

<400> 35840

ggccctgcag ctcgcggagg gccacgcgtg ctctgaccga gcagtgcccg tccgtggagg 60

ccgagggcgc gcactgcgag ggcctggcgt tcgacgtgca cctgcgggtg cggaacgcgg 120

gcgagaggtc cggcgggcac acggtgttcc tgttctcgtc gccgccggcg gtgcacaacg 180

cgccggcgaa gcacctgctg ggcttcgaga aggtgtctct ggagcccggg caggcgggcg 240

tggtggcgtt caaggtggac gtgtgcaagg acctcagcgt cgtggacgag ctgggcaaca 300

ggaaggtggc gctcggcagc cacacgctgc acgtcgggga cctcaagcac acgctcaact 360

tgggagtctg atggccgaaa ggggaatggc taccaagtac caacgtgaaa gcagttggaa 420

tttggagggc tggattggtc 440

<210> 35841
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B5

<400> 35841

cccacgcgtc cgcccacgcg tccgcccact tgttcggacg cagaggaact aaatgctggt 60

gcgatccatt ggattgtgtc atgcctcgct gcacattgga agatctgaaa ggatgcgatc 120

catcgcttaa tgcaaaagtt ctccaagatg ttcttgctgg ccaaatgggt tcgattgcag 180

atgcccttgt tctaaatgcc gtggcatccc tacttgtcat tggtaaagtg aaaaattaca 240

tgactgtgtt gctttagcac at 262

<210> 35842
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B6

<400> 35842

atagcatgct atgattctaa cactgtttta ttgttatgtt aattctggac atttttcaca 60

gaaccatctt tgtagcattt ccctttttt atcctcgcta acaaatgtaa aaatacggat 120

cttgtgatgc tgtcttagtt atttgatctg gtgagctg 158

<210> 35843
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B7

<400> 35843

attctcacca aagtacctct atgcctgcgc tgcaacagtg tgcacatatg tcggagggtc 60

gatcatagct atgactgcat tatacagttg tgctgttttc aagttcaggg cgagaagcta 120

cagggataaa tccctgtaat cagactaatg attagctgtt ctgatttaat ggacatttgt 180

aagaattcag aaagggaggg tatcttggcc tattctctcg ttgtacaaca tcgtactcac 240

atgtttccag accatgcaat ccctgcaagg gcctttacac attaaaaaaa agaatgaaaa 300

aaccctgacg ttacccaacc ttaaaaagcc tt 332

<210> 35844
<211> 446
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B8

<400> 35844

cggacgcgtg ggcggactcg tgggcggtct cgtgggggcg acgccgagca ccggagggtg 60

gtcaacgccg gcgcccaccc gcggacgccc ttctacgggg agttcctgcg cgcggccaag 120

gccgtgtgga tgctgcacct gctagccttc gcgctggagc cgccgcccag ccacttcgat 180

gccggacgcg gtgcggagtt ccaccaggag tacatggaga gcgtgaccgg cgcgccaccg 240

cacggcggcg cgggcctggt cgtcgggttc gccgtcgcgc ccgggttccg gctggggaac 300

ggcgccgtcg tgcgcgcccg ggtctacctg gtgccgcgtg gtggccgacc gtgacagacc 360

catgcatggc gtgacagacc gcgtggtagc gttgcatagc gccgtgggcc acggatcacc 420

tccgagagtt gttggtgggt gcccat 446

<210> 35845
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B9

<400> 35845

gggacactcc atgggagggg ctttagcttc gttttgtgcc cttgatctat ctgttaaatt 60

tggatcgcag gaggttgaac tcatgacctt tggacagcct cggataggca atcctgcatt 120

tgctgtatac tttggtgaac aagtcccaag aacaatccgt gtgacccatc agaatgatat 180

tgtgccgcat ttaccaccgt attattatta cctaggtgaa tggacatacc accactttgc 240

tagagaggta tggcttcatg agagcataga tggaaatgta gttaccagaa acgagacggt 300

atgtgatgat tctggtgaag acccgacctg tagcaggtcg gtctatggga tgagcgtagc 360

agatcatctt gagtactatg gtgtcacact acatgcttga tcagggg 407

<210> 35846
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-C11

<400> 35846

ggtcctagta caattttgtt ggccgcatcc tttgtccaag aggaaattcc ttgaagcgga 60

tggaggcgaa tacagattgc cgcgtgctaa taaaaagtcg tggcancata aaagatccag 120

cacgggagga aatgatgcga gggaagccag gatatgagca tctgaatgaa cctctccata 180

tattggttga ggcagagcta cctgttgaca tcattgatgc tcggctgatg caagcccgcg 240

agatccttca agatctgcta aagcctgtgg atgaatccca ggacttcttc aagaagcagc 300

agctccggga gctcgcgatg cttaatggca ccctgcgtga ggaaaggatg cagaggttcg 360

gttcagcgtc ccctttcac aacagccttt gaatgaagag agccaagaca gggggtgatg 420

<210> 35847
<211> 257
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-C12

<400> 35847

cccacgcgtc cgcccacgcg tccgcccacg ctttcgccca cgcgtncgct cgggaacgta 60

gagcttgctg atcccactat caagaaagtg gaggaaagtg ctaccgactt cttggttgat 120

aaggtctcgc gatttcctgg agaggtctct gtgctcgcct tgggtcctct gacaaacata 180

gcattggcca tcaagaagga tccctcattc gtgaaaaacg ttaagaagat cgttgtgctg 240

ggtggagcgt tctttgc 257

<210> 35848
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-C3

<400> 35848

ctcagccaaa cacaccagat ttgccagatg tattgaagct atttattcct tttgcatctg 60

cgccgccagt tgttgctact ccattggaaa aaactgagac agttccctca ccttcaatgt 120

cttctccagt gaagccaact gagccaaaaa tctccacata gcgggttgat gaatctgcca 180

caccagtacc tgccactgat tatacgttca cataacaacc agaacaagct cggacaatct 240

cattcgaaag tgaggcacgt atcgacttgg accatgttct atct 284

<210> 35849
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-C4

<400> 35849

ctcagacgaa cacacctgat tttccacatt tcttgaacct atttattcct atcgcatctg 60

gaggggcagt tcctgctaca tacatgggat acaaccgata cagttccctc accttcaatg 120

tctactccag agcacccaac atagccaaaa acctccacat tgcgaattga tgaaacgccc 180

acaccagtac ctgccactga taatacgtcc acttaacagc cagaccacgc tcggataatc 240

tcatccgaga gtaaggcaca tatctactaa gaccaccgta catctgccgc tgatacaggc 300

gctcaattag ctcatcgagc atcctgcgga cccaataccg ttca 344

<210> 35850
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-C5

<400> 35850

cccacgcgtc cgcccacgcg tccgcccact cgtccggtcc agattccaat tccagtccga 60

gcgtgagctc agctcagctc cgctagtcct ctccccgcac gcaccaccac cagcagcagt 120

ccagcaccat gggcggcgcc ctgctcctca cgctgctcct cgcggccgtg ccctctcct 180

tgggcggcgg cggcggcgcg cacccgggct actccgacga cgacgagagc gcgtgcacgg 240

tggacgcggg cgcggagctg ctgcggcgga tggaggagcg cgggcccggc gggcgcatca 300

tcatcgacat cacgcacgcg gtcgtgccgg acctgccggc gttcgccacg gtggcggtcg 360

cggtgcccat gctgcgcctc aaggagtcca tggcggacgg gtccgagtac aacctgtcgg 420

agctgcggat ggagtgccac a 441

<210> 35851

<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-C6

<400> 35851

cccacgcgtc cgagcgcgac aagattctgg ctgtaaccat gatcgtgctt gctgtcctgt 60

gaaattctgt cgccctatac agtgacgcga tgaacatctt ccgtaagaag gaagtggcct 120

gatctcagat ttcaaaagta gtcagtgctg gatgaagaat ggtctcgcaa ttcaagactc 180

gatggtacga aggaaaacga tgcgcttgga ttccgtgaag gaacgatttc tttgtcagca 240

cctcagaatt tggccacttg aaagaatctg atgcttgaag tttcctggtt ctgtgtacac 300

aagtcggctc aatgtcagaa ttgagccgct tgaaatatat ttagttatat tctatgcgga 360

gagtaggtct tggaaacagc cttttccaca ataatgtaca gaaattggca taatacgcga 420

<210> 35852
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-C8

<400> 35852

atctaactga cctggatgca gctgaatact atgaatcacc agctatacca ttcagcgttg 60

gtgcgcaaga catcgatgtc gcattgggac gcagccagag tgcagaaatc ctagacgaca 120

tggtcacgag aagccggggt gagatcaaac gcctgaacag cccgaagatc accagctcag 180

gtggcacgcc tgtggcagaa ctgaaaggca tccgcagccc atccatttct gaaaaagcat 240

acagccctcg tctcactgag ctccagcatg agcgcagccc tctgggaggg agaagcaggc 300

ctaggacgcc atccaagttg ggtgaaggct cggcaccaaa gtgaataaag caatgatgca 360

ttgcttaagc tatgcaacta ctgggttact ggccatcaat tatataagtg attttaaagt 420

ggtttcagtg ttagtatcca agatgtcctc tgatg 455

<210> 35853
<211> 157
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-C9

<400> 35853

atcaccgacc ggnatacaaa aacggctcgc tttttaagtt ttnttacctt ctcctcccaa 60

aactccatgc tcgacgctat cgagaacatg aacagcaagg aactcgactg cctaaacatc 120

accgttaacc aggcccagtc ccgtggcggt ggcaata 157

<210> 35854
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D1

<400> 35854

cccacgcgtc cgcccacgcg tccgacggcg accatcacgt tccggggcac ggtgatgggc 60

gcgtccccgg cgccgtccgt ggccttcttc tcgtcgcgcg ggccgaacaa ggcgagcccg 120

ggcattctga agccggacat caccgggccc ggaatgaaca tcctggcggc gtgggcgccc 180

agcgagatgc acccggagtt cgcggacgac gtgagcctgc ccttcttcat ggagtccggg 240

acgtccatgt cgacgccgga cctgagcggc atcgcggtca tcatcaagag c 291

<210> 35855
<211> 293
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-D10

<400> 35855

acccacgcgt gccgcagaaa acccatggaa gggtcacttt gtgcctcgct tcatgatagt 60

ctggttgcga aagggtatac ccctccagcg tgttggcgcg gactctnntt tcggcccctg 120

aagcggagtt tcttggcaag cccctgtggc ttttgggggt ccctcgagcc cccggatgga 180

gaaaagtacc cgtcaagggt caaaggtccc cgaggctnaa gcggagccga cccgnngctg 240

caggaggggt ggtcccggac cctgctcaag aaacccatcc tgctcgtgat gaa 293

<210> 35856

<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B2

<400> 35856

aacacatgcc ttgcaggatt gttgttcagt agattttact tgtaccgcgg ctttggagtt 60

ggcggaagga ctttgttcaa gaacttcttc tctcacagga aataacatga gtgcagtccg 120

tgcttttatc t 131

<210> 35857
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-D11

<400> 35857

atcgctgact ctggagggtg tggtatatgt tgttgatagt ggattttcca agcagaaatg 60

gggtggtccg atttcggaca tagagagttt agttgtcgca ccaatatcca aggcatctgc 120

aagacaacga gcaggcagag ctggaagggt gcgacctgng aagtgcttta ggatctatac 180

agaggaatat tatcttaatg aaatgcagtc agaaggaatt ccagaaatgc aaaggtccaa 240

cctggtctcc tgcataatac agttaaaagc cctaggcata gacaacatcc tgngctttga 300

ttggccagct tctccatctc cagaggcaat gattcgggct cttgaagttc tattcttcct 360

aggtatnctc gatgaag 377

<210> 35858
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D2

<400> 35858

ggagctgcag gcggcgatgt cgatgccact ggcttccgtg ccaacgacgt cgttgttgcc 60

gccgcctact actgctccgg cggcttccgt gtcaatgacg tcgtcgtcat cgttgccgcc 120

tgctactgct agcagtagcg ctgctccggc cgccggcgac aagggacttc ttgacgacat 180

ggtgccgtcg gcgatgaggc acgggcggta gttgactaat tactcggcta gctaattagt 240

acaatgatga cgaagcatac gatggagctg cccatcagat tatttggagc tctattatta 300

atctctgatt aattggacag agacaggaag aattgattgt aacatatgca tatacataca 360

tattaattat ctatatatag ctacggacta agcgagcgag cttctacaga atgggcgccg 420

ggt 423

<210> 35859
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H4

<400> 35859

cacaagcttg aactcgaccg attcagtcgc gcttatgaga taagaaacta ctagacgggc 60

tcggggacca ttcaactggc gacccccctac atttacttga ccagaatacg gtgctgttgg 120

ctctcaaatc agctgcaggg aataagaggg ctgcacccga tgacgacgac cagaagttcg 180

aggtggaccc tgaacgccgt ataatcgtac gcgaagagcg ccagaagtgc ataacgaagc 240

cggcccctcg tgacgacgag gaggctgatg gaaagagctc tgtcacaagc caatccatca 300

cgaagaggag gacatccggc tctggctggg cctacactgg tcacgagtac accatcaaga 360

gggccagtgg cgatc 375

<210> 35860
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H5

<400> 35860

aacaaattga agctgcaaag caactgatca gtgaggttac cagtgagaat cgtgctagga 60

atccaatgtc tggtggctag tctcagcaag gctatcgccc tcctcgtcct cagtcaaact 120

ggggcccgcc ttctgtgcca ccccagcagc ctggctatgg ttatatgcag cctggggctt 180

atcctggggc accgccacag tatggtgcac ctcagcaacc ttatggtagc taccccccaa 240

catctggtgg ttatcagact ggatgggatc agtctcaaaa ccagcaatct catacaactc 300

cccctggtac tgggtatgat tattatagtc agcagcagca acctcagcaa caatctgccc 360

ctgggacagc tgcttctact gatgccacta gctacaatta tggtcagcct tcgacgtatg 420

cttcacaggg atatgatt 438

<210> 35861
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H6

<400> 35861

ggactccacc gtcaactgcc gcgccaactg cagcctcttc gacgtcgacc acatgtgcgg 60

cctcagcctc aagggccgag gggccatccc cttactcgag tccctcgtcg tcgccgacgt 120

cgccgcgctc agggacggca ccggcaccct caccgtcttc accaacgagc agggcggcgc 180

catcgacgac tccgtcatcg ccaaggtcac cgaccaccac atctacctcg tcgtcaacgc 240

cggatgcaag gacaaggacc tcgcccacat cgaggcgcac atggaggcct tcaacaagaa 300

gggcggggac gtcaagtggc acattcacga cgaccgatcg ctgctcgcat tgcagggtcc 360

tcttgctgca cctactctgc agatgctgac gaaagaagat atgagcaaaa tgtacttcag 420

tgacttcaag 430

<210> 35862
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H7

<400> 35862

ggcactttcc ctgcctgatt ggcgatttat agcggtgggg gagggaaggc cgatggtcag 60

ggaaagagag taggtggacg gacggtgctg gcatcgccaa ttcaactccg catctgcatc 120

ggcagcgcgc cagctccata ggaggagatg gcgctcacaa gaatcggtct tgctggcctt 180

gcggtcatgg ggcagaacct tgccctcaac attgcagaga aagggttccc catctctgtg 240

tacaacagga caacctccaa ggtggacgag accgtgcagc gtgccaaggc agaaggaaac 300

cttcccgtct acggcttcca tgaccccgcg tcctttgtga agtccattca gaagccacgg 360

gtggtgatca tgctcgtcaa ggccggcgcg ccagttgacc agaccatcgc gacgctcgca 420

gctcacttgg agc 433

<210> 35863
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H8

<400> 35863

cccacgcgtc cgccaaaagc agctcctttc tcgggggtcc ggccacttcc aggagttgtt 60

gcctgcgaag cttgctccgt tctttcgcct gcttgccctc actcctctat cgccttggcc 120

tgcttattgc ccagacagtt tctgcttgac cccacgattc ttcactgatg attcacagaa 180

agcttggcga gcacgtacat aacttgccga tcggacagtt gatggacggc acgagcccaa 240

accgtacaag tccacaataa tttctccctc cggctccggc tccgcctaga ctcactcgtc 300

catgtcgcgc gccggccgct ccctgccccc gcccgtggcg gcgctcctgc tcgcggtggt 360

ggcgctgtgc gcggcgcggc gcgcgcgcgc gatcggcgtg aacttgggca cgc 413

<210> 35864
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H9

<400> 35864

taacacacca catcttctct tcataccatt ctttaacccc ctagattatt catccctttc 60

atgcttcatt taaaataatt taggcaccta ccatttatta tccactaact atttaatacc 120

ctatctcttt atatcctttt cctattctca attcttcacc ttctcttctt cttttaccta 180

ctctataccc tcttttcctt ctac 204

<210> 35865
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A10

<400> 35865

cccacgcgtc cgcccacgcg tccgcccacg cttacttacg gtatatggcc ggcactgtga 60

aaggcatgag gacacccaaa acagcttatg actttgaggt ttcttggaga gctctttctg 120

atgacactgc ccagcaaata cagttactaa agtcgattcc accagcaagc ctaccagaga 180

ttttcaagaa cgcactctct gcacctttтc ttattgacat cgtgaagtgt gcagccttaa 240

tttttccgga tgcggaggca ttagctggca atattttgga taatttggct cgagttccac 300

gcttcgactt gataatcatg tgcctttcat ccatgcacaa aattgaactg aagaagatat 360

gggaacaagt attccttgct gaaaaagcgc ttgctgatga tcggat 406

<210> 35866
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A11

<400> 35866

cacgcgtccg ccttcgcgca cgcaacgcaa aaacaagcac attcactcgc gatccgatct 60

gggccggcca aggagcgacc catccatggc gactagggtt tggctcaccg ccctcctgct 120

tggtttcctc gtcgccgcct ccccccttcac cggccgagtt gctagagctg aatccgagga 180

agatgctgct gcagctgagg ttgttgaagg ggctgatcta tgtattgtgg gtgatgatac 240

acaggtttcc agtgatggac ctttaagtcc tgctcctggt gtagagacag taattgtctt 300

cccaaaaaat gctggcaaaa ttgtactagc aggtgaagaa actgaattac tagttggtct 360

gcaaaatgac ggtgaatcaa ttttgaa 387

<210> 35867
<211> 217
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-A12

<400> 35867

cccacgcgtn cgccgacgcc cagaattcac gtgaacgcac acgcacccac acgacacata 60

caggagaggc ttanggtttc cccgtgcccg gccgccacag tgccaaccca gctctccggt 120

gcgcccgcga cccctgctcc cgtcgacagg gtggcagcgc cgtgcggagt cgactcgccg 180

tccgctggcg ccgtgtgcag ggccgcgggc aagggga 217

<210> 35868
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A2

<400> 35868

gcacaagctt agtcgagaat attgcttttg agtcgcggaa gcagagggga taaaaatctt 60

agtcatgttt ggactttaac tttgttttat gttggaaagt acttgaaaga cttttcctgt 120

ggtaattcta ggcgtaggtt gctgtgctgg ttggggttta ctggtgaacc agagtttttc 180

tatcccacta tgaatttgtt acctcaagtt acctgg 216

<210> 35869
<211> 314
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-A3

<400> 35869

ataattaaaa tcccaaatta aagaaaacga ggggaggaaa aacaactttc atcggcgtcc 60

gacaccggag ctcccttcgt cggccttcct tgagtgtcaa ccccccttctc aaaacttgga 120

tttgcacctc agtccctgcc ggtctgcccg gtcgacgcct cgccggagga agcccctcgt 180

ctccttgccc tgcggcgggt tcatggggtt ctcgctgtac cccatgaaga cgtccacgcg 240

gatgctctgg agcactagct tcttccgcca taagctcagc tcctgctnct gcttcctctg 300

aggacgcccc accc 314

<210> 35870
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A6

<400> 35870

ggcaacttca ccaccatcgc ctcccagtgc ctcatgaagc tccccgcaag caacaacgag 60

gtcacctaca actgcgacgg tcacactttc aattacctcg tggaagacgg attcacatac 120

tgtgttgttg ctgttgaatc ggtggggcaa caaattccta ttgctttcat ggatagggtt 180

aaggaggatt tcacaaaaag gtatggtggt gggaaagctg ctactgctgc agctaacagc 240

ctcaatcgag agtttggatc aaaacttaaa gaacacatgc agtattgtgt ggatcaccct 300

gaagaggtta gcaagctggc caaagtgaag gcgcaagttt cagaagtcaa gggtgttatg 360

atggaaaaca ttgaaa 376

<210> 35871
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A7

<400> 35871

gcagtactga ttgcacttgc tgttctctgt ctgctggtat ctcatgtgaa atgaccgagt 60

gccgtgaatc tagttttggt tcacgttgtg ttatatatta ccacagtcca cgctgtactc 120

atagtgatca cgcttgagct gtgtcatgga ttctggaaga ccatcattgg ttcaaagcat 180

ttcaatgttg tgctccaatg tgccatgccc tacaaatggg aggtctgggt gcttgctttg 240

caatggcatg atctggcatt aaaaatatta ttcacttatc cctgtatttg gtc 293

<210> 35872
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A8

<400> 35872

ctaccaagtc agctataaag ggacaagatg ttaagaccaa atcagcaaca aatacaagcg 60

gggtcactaa agggtcacct ttaaaagaaa tatcaggtgt caaaacgaag caaatcttgc 120

aaaaggtttc aaattaaagc actgttgtac ctcttgagtc caaaaccttg aatgaaaacc 180

actggaatta gtcagagcat tacgtctggc atggctaata atcaggtacc ccaacctaat 240

gacttttgaa aagataccct aagtgttaac ccagctggag ataaggagca atctcctgtg 300

acaaccgagc caactactaa cgtactggag gctgatcttg ctcaaccagc acatgatgtt 360

gatgaaaat 369

<210> 35873
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-A9

<400> 35873

cccacgcgtc cgctcgcggt gttattcctc tcgagtcgcc tccccctcaa gttccacaaa 60

cgcaagcgcc aatctcgccg tcaccacctc aatccagcaa acgcaaaccc catctcgccg 120

ccgccgcgat gtctcgccgc tatgacagcc gcacgacgat cttctcgccg gaggggcgtc 180

tctaccaggt ggagtacgcg atggaggcga tcggcaacgc cgggtcagcc ctcgggatcc 240

tagcggccga cggcgtggtc ctcgtcggcg agaagaaagt gacctncaag ctcctncaga 300

cctcgcgctc cgccgagaag atgtacagga tcgactccca cctggcgtgc gccgtggccg 360

ggatcatgtc cgacgccaac at 382

<210> 35874
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H3

<400> 35874

aacaagttcg tgggctacca cacgacgttt gcgttcgtgt tcaccgacaa ggcagagggc 60

gcgagcgtgg tggtggtgtc gttccggggc acggagccct tcaacatgcg ggactggtcc 120

acggacgtaa acctgtcgtg gctgggcatg ggcgagctgg gccacgttca cgtcggcttc 180

ctcaaggcgc tgggcctgca ggaggaggac ggcaaggacg ccacgcgggc gttccccaag 240

gccgtcccca acgccgtccc gggcaagccg ctggcctact acgcgctgcg cgaggaggtc 300

cagaagcagc tgcagaagca cccgaacgcc aacgtcgtgg tcaccggcca cagtctcggc 360

gccgcgctgg cgaccatctt cccggcgctg ctggcgttcc acggggagcg 410

<210> 35875
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B10

<400> 35875

ctctccttct agcgaagtat ctgcggcggc gtagcgcggc acgctagagc ctcgttgctg 60

aggaggggag atggctggta ttgacgatat gccgataagg cctgctcggc cgggcccgcc 120

gatgcagcac cgtggtccga ccccgatggc gcgccttcgc cccgaaccaa tcgaccgcga 180

gaagacct 188

<210> 35876
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-B11

<400> 35876

cggacgcgtg ggctccagcc tccagcgtga tctgagtcct gaccaagccc taaacgccac 60

cggccgtggc aaatctcctt tccctgcgat ccatggccgc cgccgtcgcc gaccccgcgc 120

catcccgcaa gacggagacc tacaccgaca ccaagcgccg cgacgacgtg cgcggcgcca 180

acatcgccgc tgcgcgcgcc gtcgacgacg ccgtgcgcac ctcggtgggc ccccgtggca 240

tggataagat gatcgcttcg ggcgaccagg ctcaggaggt catcatcacc aatgacggtg 300

ccaccatcct ctcccgcatg gcgctcctnc aggccgccgc gcgcatgc 348

<210> 35877
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F9

<400> 35877

cccacgcgtc cggagagtct gacatgattt ttagtactac gagcaggact aatactaggc 60

ggtgctgatg aactggagcg aagggatctc ataacttgct gttgctcggc tccgccattc 120

gctcgctggc tgtgtccgct gcctcagcct tcactctccg ttctagcttg aatggacaat 180

tgtaagataa cccgactaac tcgacgcttt taagatctct tctaggtaag ctatcgccag 240

cgattccctg cgggaagaag aacagataag gaacctgtct tgat 284

<210> 35878
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G1

<400> 35878

atgggtgccg tcgagggcta ccgcattgcc ggctggccgc tcggcgaggt cgtcgaccgg 60

ctggaccctg gcggcagctt cgaccccctc gggctggccg acgaccccga ggccttcgcc 120

gagctcaagg tgaaggagct caagaacggc cgactagcca tgctttccat gttcggcttc 180

ttcgtccagg ccatcgtcac cggcaagggc ccgctcgaga acctcgctga ccacatcgct 240

gacccagtca acaacaacgc atgggcctac gccaccaact tcgtacccag caactaagct 300

caacggctat gctatgcaac ttcattgact ttcggatcgg agagggtgta cgtacgtgga 360

ttgattgatg ctgcgagatg catgtgtgtc ttatggttca cgttgcattg cataggcaag 420

tcgagatgat gagttggc 438

<210> 35879
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G10

<400> 35879

cggaggagaa gctgctggaa ggaggcaatt ttagaggcag actggaggct aggagggcac 60

tgttccaagg cagccaggat aggtcggcca agctggctgg atacaaagca gggtcacgag 120

ttgttccata cgaaggtggt ggtaatttgg aagagatttc agaagttgaa ggtagatcgg 180

aaaggtatgc agttcagaaa gacgagagct tgtcagaaat aaggacgcaa ctccttcaga 240

ttgaaaatca gcaaagcagt ttactggatc ttctccagaa atttatgggg aagtccgaaa 300

acggtatgcg ttctttggag acaagagtgc atgggctgga aatggctttg gatgagatct 360

c 361

<210> 35880
<211> 280
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-054-Q1-K1-G12

<400> 35880

cgatagatct cagcggggta ctcgctggtt tcacggccat ctggttttta atccacgtta 60

gggagtacca tctnctcacc ttggtgtgcc actgtctcat cgtcttgctt gccatcctgt 120

tcctgtggtc caacgcctnc agtttcatca acaagtcccc accaaacatt cctgangtga 180

aaatccctga ngatgtgtct gttaatgttg cactgacact gagatacgag atcaacatgg 240

gctttgctac cttgagggag attggacatg gacacgatct 280

<210> 35881
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G2

<400> 35881

ggccaacggg atcgatccac cgaagctctc gacgcagcct gacaaaccta catcttcgtg 60

ctgttcgagc gaacgtgcta acatcgacgc tcttctctcc aagttatgct ccgcagatcc 120

tgaggaacag agatcagctg ctgcggagct ccggctcctg gcaaagcgga atgcaaacaa 180

tcgtatctgc attgccgaag ctggtgccat tcccttacta ttgagtctcc tgtcgtcatc 240

taatctgcag acccaggaac atgctgtgac tgcacttctg aacctctcta tacacgaaga 300

taacaagacg agcatcatat catccggtgc cgtcccgggc atagttcatg tcttgaagaa 360

tggaagcatg gaggcacggg agaatgccgc agccaccctt ttcagcctgt ctgtggtcga 420

tgaatacaag gtaacaatc 439

<210> 35882

<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G3

<400> 35882

caaccgcgcc atcgttaccg actcaccgtc gactcttgct cactcactcg cactctccgg 60

ccagatcaga gcgctcgctt ccaatagcgg cgtcttgtac gagaaagcct gcgcagtaag 120

ccatggcaca ctaatgacac cctgagaaga tgcaagaggc ctccaagctt agcgcctacg 180

atccaaccaa gattaacaaa gctaataacg ttgtcataca atagcctttt gatgaagtag 240

acaagcttgc agagaagaca caatcactag acatgcactg aaccagctga acataactat 300

actggacagg acaagaatca tatgaagcag gtgcatcctg agcaaagtat agatgaccgt 360

gaatataagg atgacac 377

<210> 35883
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G4

<400> 35883

cctgctagct ctctgtctcc tgctcatatt cgctgttcgc ttcgttgtac tagagcgcgg 60

atgagatctt tccttggttc ttcattccgg tacgaagggg aggggtccaa gtgaagagaa 120

gagaaagcct gcgagcgatg ggcatcggcg acgtcatctc cgagttctgc tccttgccga 180

agaactcccg gcatctcaag aagaagaagc agtttcagac gggggagatg aaagtgcgca 240

ttgactgcga agggtgccag cgcaaggtga agaacgcggt ggagggcatg aaaggcgtga 300

gctccgtgga ggtggcggcc aagcagaaca aggtgacggt cacgggctac gtggacgcca 360

ccaaggtcat gcgccgcgtc gcctacaata caggcaa 397

<210> 35884
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G5

<400> 35884

tgcaaattat ttttcttcgc atttccacca cacagcattt ttttcccagt actatatacg 60

aaaatgagtc attgataaat tctgcagttt catgtgtttg ataggcactg ttagcagcta 120

gaagttctgg agctgtcatt tttctaggca catttggagc tcttgcggta atgaccatta 180

tatctgtagt tcttggtcga gcattccact atgttgatgg catcattccg ttcagctttg 240

gtggtactga tttcccagtt gatgacattg ctgcggcatg tctcttggtt tattatgggg 300

ttactacatt acttgatgca gcctcaggtg atgatgaaaa gatcaatgat gagcacgagg 360

aggctgagtt agcagtatcg aaattttctg gaaatggtgc ggtggtcatg tctgctgctg 420

gtactattgc tagc 434

<210> 35885
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G6

<400> 35885

aatcgaaatc gatccgatct acgcttgctc tgaagcctga tctccaccgt ggtcgcagca 60

tgggcgcatg accttgatca ccaagaggca atggagcatg catccacaac cacatgccat 120

ggcagtgagg gccctcatac tcacttacaa ctacgtcctg atcgcactca tcgtcgacat 180

agtacaccgt gactggcttc ttgattgccg actgtgtgca tgttgatctg cccatgaaaa 240

ccaactacct tgtcgtcgac atcaatacca ctgctaaaca aatcgaggat gcgtacaatg 300

aatttactac gagggatgat atcgctattg tgctcatcag tcaggatatt gccaacatga 360

taaggtgttt ggtgggta 378

<210> 35886
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G7

<400> 35886

aacactcgtc cgcccactcg tccgtcgttc cgaaccctga cctgtacacg gtcgccaggg 60

ggctcgcaag acctagatca ctagtagaca aggatagcag catccacaaa cacaatccat 120

atcagtgaag gccaacatat acaataacaa ctgcagactg atcataatga tattcgacca 180

gatctccgtg actgacatct tgaaggacga cgatggctac gttgatctga gcaagaaaac 240

caactacatc cacttcgaca aaaatacgac agtttaacaa atacaggatg cgttcaaaga 300

atatactacg atggatgata ttgctattgt gctcatgaac aagtataatg tcaacatcat 360

aaggtgtctg gtggatagc 379

<210> 35887
<211> 120
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G8

<400> 35887

cagatgcacc catactgtat tattctgttt cagcgtccta tacaaagtat acattggggc 60

tgaattctga ttagcccgtg ctgatgcttg caatgacatt ggttcttgtg tgtacagact 120

<210> 35888
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G9

<400> 35888

cccactcgtc cgcacacacc tcctcagatg tgtcttctat accatttaaa ccttttacct 60

agacgactat caatcttaat caggcaaata caaatactta aactagcact ttcaccaaca 120

atattctcta taaatctcaa tattctcaag cccattcttt aacatattat atactttcga 180

atcttactct acaaacctgc tattattgaa aactcattta ttccattact ttatacactt 240

aacttatatt ataatataaa gtatttgttc tacattaaat cccaatatgc tttt 294

<210> 35889
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H1

<400> 35889

cccacgcgtc cggcgaaggc acctagcatc cgtcactcgc cgaactgagg aacacgccgg 60

gcgacgggat acagcagcag cgcgcccctc tatgcccgac gcgacggcgc cctgcagctg 120

cagataaacc tgttccaatg gccaaacaaa aagagggtgt ggacaaaaga actgctagga 180

agacgatccg atctacggaa ggctgtgcaa agagcattac tttcgagagg aacaacaaat 240

cagacgctgt gcagcttcac gatctgccga atgacatcct aggtagcata ctatcacggt 300

tgacattcag agaatcctca cagatgggcc ttgtttctca tacctggcgg cggctgtgga 360

gaagctgttg ccggaaactg gtcttcacca gtgccaccat gttccaaccc ggaaatagga 420

gcatcaaaca tacaaagac 439

<210> 35890
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H10

<400> 35890

ccgggcgact cgtccgaaaa aagaaagaga gggggagaga cacagtttcc tcactccaca 60

cactgtcttg tctctgagtg ccagagcttt cttggatcgc gaggaatcca ctggaaattt 120

tgcaattgta gtagagaact gtatcgtccg acgaaggtgc atggtgttgg ccatgggtca 180

cggcagggaa cagagacgag caggtcggcg ctcttccccc agctcattga tcctgtcctc 240

gctataaggt agtcctgcgg tggcctccga atttcactcg atcgaacacg acatgaagcg 300

ggca 304

<210> 35891
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H11

<400> 35891

cccacgcttc cgcccacgcg tccgcggacg tttgggtggc ttcacgcctc gcagcacagc 60

agcatccaaa tcagatcttc caaccgccgc cgtgcttgca cagagtgcct ttggggtagc 120

agttgctgca gccgtagtta tcgctggcta cttgtacgag gcttccaaga aggccaagta 180

gagggcgaag ttcttctcca catggctttg ctttagtaag tctgaagatc gaataacagg 240

accatatctg aagatcgaat aacggatcat ataaatgagt tactcggaaa atgttctgaa 300

atccttacga acagaacgtt gccttcatgt ttacactgta ctcatgagtc acagtgatat 360

ggagatggca tagcctacta ttggaagttt atgcattctg tgt 403

<210> 35892
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-054-Q1-K1-H2

<400> 35892

cccactcgtc cggctaaggc tcctagtttc cgtttctcgc cgaactgagg aacactgggg 60

ncggcgggat acaacagggg cgcgcccctc tatgcccgac gcgacggcgc cctgcagctg 120

cagataaacc tgttccaatg gccaaacaaa aagagggtgt ggacaaaaga actgctagga 180

agacgatccg atctacggaa ggctgtgcaa agagcattac tttcgagagg aacaacaaat 240

cataccctgt gcagcttcac gatctgccga atgacatcct aggtagcata ctatcacggt 300

tgacattcag agaatcctca cagatgggcc ttgattctca tacctggcgg cggctgtgga 360

gaagctgttg ccggaaactg gtcttcacca gtgccaccat gttccaaccc ggaaatatga 420

gcattaaaca ta 432

<210> 35893
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F7

<400> 35893

agctgacgga cacatatata catgtgctca tgcatgcggg aatttctttc tttgttctgc 60

gtcttcttca ttgcaccccc ttttaagaat agttggtacc gaactgtcca ttctgtaatt 120

tattataaat tcggtaatta ttacaaatac tgtggttaat aaagaatgtt ccaccagcgt 180

aagactaact acctgcccga accctctacg agtacaagac agaagcctca actgaaggat 240

ctgagcctga gcgccctccg gacgacaaga acaggttctg ctttttatag ataccattta 300

tcactagcta gaatacatat tcacacgcat catctatcac accgcaagct tataattgac 360

ctcaaagttt acacatgctt gtc 383

<210> 35894
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E3

<400> 35894

caccaatggg aaccataaca tgggtgaaag ccttattata ttggggaaag ggttccacgg 60

gttggggttg aaaaatagaa cccggtcttt ttggaatccc ttattcctta ccaccatgct 120

ttctcctttt tggttaaagt cccccaattt tggaaaaatt taccaaataa agg 173

<210> 35895
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-054-Q1-K1-E4

<400> 35895

tggatattgc tagcactgaa gctggaaaca tttattcata tagcatcttc acacctacgt 60

gcgatgcatc ttttgcctcc tcaaagaaca aagtgatgaa aaggctacat tctgctggaa 120

aaatgggaga acagtatgat ccatgcactg agaagcattc aactgtatac ttcaatctag 180

ctgaggttca gaaggcactt catgttaata cagtcattgg aaaatcaaaa tgggagactt 240

gcagtgaagc tgttaatact cattggggag attgcgaaag atctgtgctg catatctatc 300

atgaacttat acagtatggc ctccgtatat gggtgttcag tggagataca gatgcagtga 360

ttccagtgac ttcaactaga tacagcatcg atgctctcaa gcttncaaca ataactccat 420

ggcatgcttg gtacga 436

<210> 35896
<211> 290
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E5

<400> 35896

gaggagctga gctgcatctc gttggcgttc agcatcggct tcatcgcgtc caggtgaagt 60

cgttcgagcc tgggcacgag aggcagccag cccatggatg taaattacgt ggagcacact 120

ctgtatccta tgactttcaa gtatctaggt ccatgtaagc tttttgtggg tgtctgtgtt 180

caactgagac gtttttatcc ggagttgaac atcacaataa agcaaagtca ctgataccat 240

gtaatggaac tctgagcgct tgaaaaaaat gaactcacaa taaaaaagaa 290

<210> 35897
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E7

<400> 35897

gttttccgtg cttcctttca ggtatgctgc gattgctgat cagtcaaaac aaagccctgt 60

acagcagcct gaactgaacc tgcccatgct gacacgcacg aggtccatgc ccagcatcag 120

gctcgccaaa tacgcaaagt ggttcgacga cagctcggag gacatcagga gcctctgcgg 180

gaaggcgctg cagatgctgc gcacgcacta cggctgggag agcgtggacg tcaccgtccc 240

tgagatcgaa gagatgcggc tggcgcacta cgtgaccatg ggctcggagt gcactgcctc 300

cctcgctgcc aagtacctgg acagcatgga caggtccgag gtcgggtggg acgtgcggat 360

cgcgctcagc gcctacgggt ccttcagcag ccgagactac ctcagcgcgc agcgtctccg 420

atgccggcag atgtacttc 439

<210> 35898
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E8

<400> 35898

cccacgcgtc cggacgccgt ttcttgtctc agggtcgcgc cgccgccgcc gccgccaatg 60

ccagcccccct ccgcgacgtc gccgccgccg ctgctggcgg ccggatcacc atgggcaacg 120

acctgtggta cggcccggac cgcgtcaagt accttggccc cttctccgcc cagacgccct 180

cgtacctgac cggcgagttc cccggcgact acggctggga caccgtcggg ctgtccgcgg 240

acccggaggc gttcgcgcgg aacagggcgc tggaggtgat ccacgggcgg tgggcgatgc 300

tgggtgcgct gggctgcatc accccggagg tgctggagaa gtgggtgcgc gtggacttca 360

aggagcccgt gtggttcaag gccggcgcgc agatcttctc ggagggcggg ctggactacc 420

tgggcaaccc caacctggtg 440

<210> 35899
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E9

<400> 35899

aaagatatca cggtagtgat caactattta ttccccactg gtgttgaaga ctacgttcac 60

agtattttca tgacaggaat ggctggtgcc actggtgttg catatacatt tttttgtgat 120

caggattcaa aatatgctgc tgacctaatc aaaattcttg aaggggcaaa ccaacgaatg 180

ccccgtgatt taaaagatat ggcttcttct ggcggtggac gaagtaagaa taagaaccat 240

tgggcatccc cgccttacaa gggtggttca ccttctgaac tggattcaag gtacagcaac 300

atagatggac tagcatcttt ctggaaatc 329

<210> 35900
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F1

<400> 35900

cagcgaagtt gtctacatca cttgactttc gagctaccgc ggctcacgtc ggctgcatga 60

attgcttctg tagactagta ccacacagtt tgcgagaagg ggagaggtag aggttccgag 120

gtagagagat agagaggagg agagggaggg cgaggcggcg gattcgtcac tccgttctta 180

ttcgctgatc tggaggaagg aggcgaggta cgcactgcta tctccttcca gttcgttcga 240

gaagacggtc gttgggtgat tcggcgggcg ctcctgttct gtagtaaagt tgtttgcgtt 300

tttgtctctt gtatgattgg tctcttgatc ggaaacagaa gtcccaaaat ctttcttttt 360

gcttggtcaa gt 372

<210> 35901
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-054-Q1-K1-F10

<400> 35901

agactacctc gactgggagg ttggaaagtt tggtttaatt attgaattta cagctccaga 60

gtccaactca aaacacagtg cgacctattt gcctgaagtt gcgggccatg aaggtgaaaa 120

tttccttttt catcgatgcg atgtacactt atcgtttcta cagagttctt tagtttctag 180

aattattgca ggggataata agaagaaatg agttaagaaa atatgtaatt tcatctttct 240

aaatcatcat ggaccaaatg cattataatg agcaataacg gtaaaataaa gagtcaactg 300

atcagtacat tccaaatctg tattgaatag tttgtaactt aggctttatc ttttggcang 360

ttggacacat gtagaaacta ttgattc 387

<210> 35902
<211> 151
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F11

<400> 35902

cccactcctt cgactactcg tttacaaact tctgttcaaa tacctaatct acatctccac 60

agttcaactc aaaacacatt gcgacctata agccttaaaa taccggccat taaagcacaa 120

atttcctatt tcatttattc tatctacact t 151

<210> 35903
<211> 284
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-054-Q1-K1-F12

<400> 35903

ttcgacccac tcgtccgccc acgcgtccgc ccactcgttc gcccactttt ccgcttcttt 60

cccctcccct tcctgtcagt ncgtcttaaa acggttttgc gcacaccttg tcgttctcgg 120

tttcctcttc tgccggtctg cccagtcctc acggcttcct ttttctttcg ggccactctt 180

cggcctctta cttgctgcgc tcggcctttc tgcgcattgc tcctctgttc cccccgtcag 240

tccgttcctg agcccagccg cttcgcgttc ccttgattcc accc 284

<210> 35904
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F2

<400> 35904

agcaaacttg tgtcgggact tggattacgt gtttgtgcac tttgaaaagc agataaagct 60

gatggtgtaa agcagcagtg cccggtaccc caccagggta cgtgatgcag gcaggggtgg 120

tgctgtctgt gtcgatgccg tcatcctttt ctggcgtggc gctgcatatg accgacgtgt 180

cacggcgcgt ttgggtgcgc ggcgcgcgcg cgtcaaaacg tatcaagtac tactactacg 240

tgccgtgcca ggtgttgcgt caaaacgtaa caagtttctc ccttccgttc ttttgtccga 300

gcgagtttac aagtactata ctaccaaagg cgaaagcgaa cccgcaattt tcctatgtag 360

gagtatatac tagtggactg caccaacatc cggtccacgt aaaccatgtg ccttttccga 420

cgtgtatgtt ttatttaatg 440

<210> 35905
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F3

<400> 35905

tcgatcgaac ttgtgtcttg acttgtatct tgtgattttt cacttctaaa atcatataaa 60

gggtgtggtg taaagcagca gtgcccggta ccttaccagg gtacgtgatg catgcatggg 120

tggtgctgtc tgtatcgatg ccgtcatcct tttctggctt ggcgcttcat atgaccgaca 180

tgtcacggcg cgtttgggtg ctcagagctc gcgcgtcata acgtatcaag tactactact 240

acgtgccgtg ccaggtgttg cgtcaaaacg taacaagttt ctcccttccg ttcttttgtc 300

cgatcgagtt tacaagtact atactaccaa aggcgaaagc gaacccgcaa ttttcctatg 360

taagagtata tactagtgga ctgcaccaac atccggtcca cgttaaccat gtgccttttt 420

cgacgtgtat gttttattta at 442

<210> 35906
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F4

<400> 35906

attacaagac tgcttacagc tacttctttg aatcatttga agctttcagt tcactggggg 60

atgccaatgc tatcttcagg ttgaagtaca tgcttctgtg caagataatg gtcaaccaag 120

ctgatgatgt tgcaggaatc atctcatcga aggctggcct caagtatctg ggtcctgatg 180

ttgatgctat gaaagctgtg gccgatgcct actccaaaag gtctctgaag tacttcgaaa 240

ctgctctccg tgattacaaa gctcagctgg aagaagatcc tattgtccac aggcaccttt 300

cctcgctgta tgacactctc ttggagcaga acctctgcag gctgattgag ccctactcaa 360

gggtggagat tgctcacata gcagagatga ttgagctgcc aatgaaccat gttgagaaga 420

agctgtccca gatgatcctc gac 443

<210> 35907
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F5

<400> 35907

tgatttttac cacctgaaga gcaggaatgg catgagccag cttgagttgg aagattaggg 60

gcacgatgat ttgaaggctg caactggtgg gtttactaag gatgcagatg atgcaaacaa 120

gcttaaccgc attcttcaat tgactgggtt cagcgatcct gtgtatgctg aagcatttgt 180

aacagtttac cattatgaca ttgtacttga tggtactgtc attaaccgca caaaggagac 240

acttcacaac ttgtgcttgg aattggctac aatgggagac ctcaaacttg ctgatcgccc 300

tcagaactac accttggctc ctgagtctag caaacagatc cgtgctaata tcaaggtttc 360

atgaacagag acggcggtta tatttggcaa catagtttac gagacttcaa atgtgatgga 420

acgatcagtg 430

<210> 35908
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F6

<400> 35908

cccacgcgtc cgcccacgcg tccggcctcg cgtccgccca cgcgtccgtc cacgcgtggg 60

ggcggaaaca tccaatcccc gggccaccac tacctgcctg cccgtgccca cgcttcttct 120

cttctactcc ccaagcccca gccccagcta ccgggccccc tgctgtctgt tccaccagcg 180

tcggcctagc tacctgcccc gcccctctcc gagtaccgtc ggaagcctca gctgaaggat 240

ctggcctggg cgccctccgg acgacgggac aagttctgta tggtcttcat gaagttcagc 300

actagctaga agacatattc acacgcatca gctatcaaat tgcaagctta gaattggcct 360

caaagctggg acatgcttgt cttaccagaa gccactgata gcttggagtt gt 412

<210> 35909
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-054-Q1-K1-E12

<400> 35909

acgagagaga cgaatcttcc gaatctctcg gtggcgatgg cgctctccga ccgctcccgg 60

gggtcgctcc tcccgagctt cctgtacgcc tcctcggcgc gctctttcgc tgccacagga 120

gccgccgcgc gcctccctgt ctcctcccca gcgcctgcca cggctggagc aggaggcggc 180

gtgccgttct cgatccaggc gcccaaggag aagatcgaga tgtactcgcc ggccttctat 240

gccgnctgca ctgccggagg aatcgccagc tgcgggctca cccacatggc cgtcacgcct 300

ctcgacctcg tcaagtgcaa tatgcagatt gacccagcga aatacaagag tatctcatct 360

ggatttggta tcctggtaaa gggagcaggg gccaggggtt tcttcagggg atgggtgcct 420

ac 422

<210> 35910
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-C8

<400> 35910

cccacgcgtc cggtggatga acaaactgta agagcttcac acaccctagc agagagcagc 60

gggacagcta gcattccagt gactgtacct gaaggaactc atcctgatca aacaagtgat 120

caagtgggaa tcaatggaag catgaaccca tgcatccatc caatggtttc tgcagaccca 180

aaatttggta gtagtgccac accacagact tttcctcata attatgctgc ctttgctcca 240

atgatgcagt gcaactgcaa ccaagatacg tacaggtcat tcaccaacat gtcatccacg 300

ttctccagca tgcttgtttc cacgttgttg tcaaaccctg ccattcatgc agctgccagg 360

ctcgcagcat catactggcc agcagctgaa ggtaacactc ctattgatcc gaatcaagaa 420

aac 423

<210> 35911
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-C9

<400> 35911

cggacgcgtg ggcggactcg tgggcggact cgtgggcgga cgcgtggtga gccgaatagg 60

gaggttgtga tagcagatag cggcgagctg ccgatgtgac cgccagctta actgatgttc 120

catcccgaag catgattata agaaattgct ggtagccgtc tgtcgttcta gaactggtag 180

gccctggttg gaatcttagt attttaccga tttgaaagaa tgctatggta ttggatgata 240

ctatggtata gaaagtcaaa aactggttgt ttgtatcagg taaaacgctg tttcgaatac 300

tatggtgtac ctaccaagct acaaacccga tatattttac agtattgaaa acttcacttg 360

gacttc 366

<210> 35912
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D1

<400> 35912

agaatcgtct cgctcgtggc tgccctgctc atactgcttg ccctcgccgt atcgttcagg 60

cgcggcgcac aggaggattc catgggcgac aacaccggga cgttggcggg cggcatcaag 120

gacgtgccgg tgaacgagaa cgaccttcac ctccaggagc tcgcccgatt cgccgtcgat 180

gagcacaaca agaacgccaa tgctcttctg gggttcgaga agcttgtgaa ggccaagaca 240

caagtggttg ctggcacgat gtactatctc actattgaag tgaaggatgg cgaaatcaag 300

aagctctacg aagctaaggt ctgggagaag ccatgggaga acttcaagga gctgcaggaa 360

ttcaagcctg ttgaagaggg tgctagcgcc taaggatctc tacttataca tgtgcg 416

<210> 35913
<211> 357
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-054-Q1-K1-D10

<400> 35913

aattcccggt cgagcacgcg ttcgcggacg cgtgggcaaa aagtcctagt ttactatttt 60

tggatacatt gttgataaac cctcggtgta aacacatagt tggtgacttg ctgttctgct 120

gtccaaacac atgtctactg gctgaaaata gctcattttg gaggtacatt tgcatcaagc 180

tttgatgaat gctggacaag gatgatatgg gcctccgccc aaagctgtct gggattcaga 240

aacaggtttt ggcgctgtac aggggattcc ttcggacagc acgccttaag gcccctgaag 300

aacgccgcan gatcgagtct ggtatcttgg cagagttccg tgacaacgca aggagtg 357

<210> 35914
<211> 451
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D11

<400> 35914

agcagcttgg agtccagcat catgacttct tcttcttcat cactcacccc atgtgaacgt 60

gggatccgga gtggcttgca aagaaccaca tgggtacagt ttgaagctag tgatattacc 120

tacccaccac caacggggta gcaaaacgtt tacagtacaa tgcgctggtg aaatgagtct 180

aacaatcgca ggatagattt atacttgagt ttactgctgc agcgaatacc aaacatgtcg 240

gcactcaaaa aggttttctg gttcttggtt cttggcagaa aaatgtaact gatctgtaca 300

gaagttttgc aactaatttg gtatccaatg tgggggttga gctgttgctt gtgaacttta 360

gtaccctaga gaatgttagt tccaggatga aactgtttac gcagactcta gctggacctg 420

aatctgtcga tgacaattag ttatcttcta c 451

<210> 35915
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D12

<400> 35915

cgcagctccg ctgccctgct ctccacctcc tccagacctc caccatggac gagccgccgg 60

tgcatccacc gtcccttccc catgccctca ccaccgccga gtaacacctt ctcggtgctg 120

gagctcgagg cagcgatcgc cgggcacgcc gacttctgcc acgcgctctg caggcgcccg 180

acgccggcca cggccgaacg gctcatcgca acggtgccgc agctgcttcg cggcgcccac 240

gccggcggca aggaagaaaa aaccctggtg gttgttga 278

<210> 35916
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D2

<400> 35916

tcggccatgc gccttggacc agcatccaac aagaataata ctggtggacc acaaccatcg 60

agtgctattt accagaacac ccaaggaact gattctgata gtgatccgaa caatactact 120

gtatttgttg gcggccttga cccgagtgtg actgatgagc ttctgaagca aaccttcagt 180

ccatatggag agcttctcta tgtcaaaata ccggtaggaa agcgctgcgg atttgtccaa 240

tattctaaca gggcatcagc tgaggaggcc ataagggtgt taaatggaag ccagctggga 300

ggtcagagca taagactctc atggggccgt agccctgcaa acaagcagcc tcagcaagag 360

cagagccaat ggagtggtgg tggctattat gggtatcctc aaggatacga tccatatggc 420

tatgctcggc ccccct 435

<210> 35917
<211> 119
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D3

<400> 35917

tcggaacaat gttgacgctg tttttctcat tggtcatgct aagttaattt accatctttg 60

tgatatgcat aatgaactga ttagcaaatg acctcagtag gtgaacccag ttgtatgct 119

<210> 35918
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D4

<400> 35918

ggtggttgag gttaatgtta aagtggatag tgcatgcaca cataatgtgc ataataatgc 60

tttgtatgct gaagagaagt tgctcaaatc tgagttgcaa gcaatgcgtg attgcgaccc 120

ttcatctgcc cgccactgga ttgtacgcaa cacacgaact gtgaatcgga c 171

<210> 35919
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D5

<400> 35919

cggacgcgtg ggacgcctcg gcgccgttgc cggcgtgcgc cttctccaag ccgttcgggg 60

acacctcgtt ccaggcgtcg ctgggcagcg acacgctgcg cctgggcaag gacgccatcg 120

ccggctacgc gttcgggtgc gtgggcgcgg tggccgggcc gacgaccaac ctgccgaagc 180

aggggctcct cggcctcggc cggggcccca tgtctctgct atcccagacc gggagcaggt 240

acaacggcgt cttctcctac tgcctgccca gctacaggtc ctactacttc tccggctccc 300

tccggctggg agccgccggg cagcccagga acgtccggta cacgccgctg ctgaccaacc 360

cgcaccgtcc gtcgctctac tacgtgaacg tgacggggct cagcgtgggt cggacctggg 420

tgaaggtccc ccgcgggt 438

<210> 35920
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D6

<400> 35920

gtgcagggcg cgagcgcgga gggcacgccc aagaggctga cctacgacga gagccagggc 60

aaaacgtaca tggaggtgaa gggcacgggc acggcgaacc agtgcccgac catcgacggc 120

ggcgtggagt cgttcccgtt caaggccggc aagtaccaga tgaagaagct gtgcctggag 180

ccgacgtcct tcaccgtcaa ggcggagggc atcgccaaga acgccccgcc cgagttccag 240

aagaccaagc tcatgacccg cctcacgtac acgctggacg agatcgaggg cccgctcgag 300

gtcggctccg acggcacgct caagttcgag gagaaggacg gcatcgacta cgccgccgtc 360

accgtgcagc tcccgggggg cgagcgcgtg ccgttcctct tcaccgtcaa gcagctcgtc 420

gtcaccggca agcccg 436

<210> 35921
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D7

<400> 35921

ggagggttgg ttccacagga agcactttta tgctctccca accccaaccg cgccgccggg 60

tgctgaagaa accttctaca acggtcctgt tcactatcca tccatagact ctacgcctgt 120

cgatgtaacc atgccggcta ccactggagg cggtagtaca acagtcatcg caacggcagc 180

acctacagaa cagttagaaa atgaagctga tgcaagtgac agcggcaaaa ctccctctgg 240

tacttgcgtt atatgtctgg atgcccctgt ggaaggtgcc tgcatcccgt gcggccacat 300

ggctggttgc atgtcctgtt tgaaggacat agaatccaag aagtggggat gccctatctg 360

ccgtgccacg attaaccagg ttgttcgcct ctatgctgtt tgaggagttg aaacggtggg 420

ttcagaaagt tggcaatgga 440

<210> 35922
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D8

<400> 35922

gttgtcatgg ccgagactgc tgagacctac tacaactcga gcttctcgat gcagagtgga 60

gaaagatgtt gggaagggtg ataaatcagg ggataaggga actgctgaga agtttgcaat 120

atatcagaag catcgttctt cgttggcaga cactgttcaa ttcaggaggc cagctgctcc 180

aacttccagt gtgaatgctg atattgtggg aacatccact ctgcagtctg catctctacc 240

gaaacaagaa tcctcaacag ctacatccaa gagctatact ttcagagaag gtgatagggt 300

gcgttatgtg ggtccagctc agttatcctc attgtcacaa aggctcctct ccttttgctg 360

gcttcgctgt tggaagcgag acatcatgtg gtgtggataa cgtccttgca gagcacgtga 420

actcaaattt cactctaa 438

<210> 35923
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D9

<400> 35923

attagcatgt cctaggaaaa gaagtgactt atacttgttg caatgacaag ggcaactggt 60

gttaaacata tcatattcat atgcttttgt tcatttttct tttacaattc cttgcatatt 120

aagcaaataa ttggtttaat attataagga gaaaattaag caaccattgg ctttgtaccc 180

aggtgtatgt ccggttcaaa atgaattttc tgatcaagct gacaatacat tttgcaatgc 240

tttgtcttaa ttgctgaaac attgtatcgg taacga 276

<210> 35924
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E1

<400> 35924

ctagttgatg ttgttgaggg aaaagtaatg gatgtattca aggaggatca agctgtgggg 60

gttgtcaagt tcaatccaag caaccccgat ctcttcctat ctggtgggtc caagggttcc 120

cttaaactct gggatattcg atgtggtctg gtaacaaaag aatttcagag aagccttgga 180

accatccttg acattgactt cagtgctgat ggaagacaat ttatctcttc aactgacaca 240

accagaagca atattagtga gaacactata attgtttggg atgtcctgcg acaagttcct 300

ttatctaacc aggtttatac cgaagcattc acatgcccgt gtgtaaggta ccacccacgt 360

gaagcatcat ttgttgcaca gtccaatggg aactacattg ctatttttc agcaaggcca 420

cccttcaagc tgaacaag 438

<210> 35925
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E10

<400> 35925

gatcgtttca gtatcaactt ccacgactca tcactcacga gcgaatacat ctggatcaaa 60

ggacccactg gccacacatt actgcataga gagagtacac agacagaagc gcacacatcg 120

gttcatgcct acgtactctg ctcgcggcaa catgcatcca cgatacaccg tttacgaact 180

gtgtatacaa ttgctaaaca ccatgcatga ctataaactt tcacacattg gtctagctca 240

aaatagcccc atccctactg aacttcgcaa cggtttgcaa gatcttattg ggattgggta 300

c 301

<210> 35926
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E11

<400> 35926

cccacgcgtc cgctgctacg gccgccgtct tttgcgtcga gttcccgctc attggcgttg 60

gcggggccac gctcatcgtg acgggccttg tcgcggccct gatgcgccgg cggcggcgtc 120

cctggcacca agcgcctttt gtggaaggga aacccgcacc aaaagcaagc tgcgcggtca 180

gcgatggcgg gacggacgtc atcatcgtcg gcgccggggt agctggatct gcgctggcat 240

acacgctcgg aaaggatggc cgttcggtgc atgtcatcga gagggatctg acagaacctg 300

acagaattgt gggcgagctg ttgcaacctc ggggttactt gaaattaatt gagctgggcc 360

tccaagattg tgtggaagaa attgatgccc aacgcgt 397

<210> 35927
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-C7

<400> 35927

cccacgcgta cgcccactcg tccgggctac gccgcgctgt acgtgggcta ccggtcgtgc 60

gccgacaacc acccgctcca cgacaacaac cggtgggaca cgtgggcgcg gttcgtggag 120

cgcagcgtgg cgtaccagcc gtgggtctgg actgcagtca accacgagct ggacttcgcg 180

ccggatctgt gcgagaccac gccgttcaag cccttcgcgc accggtaccc gacgccgtac 240

cacgccggcg ggagcacgga gcccttgtgg tactcggtta acgtcgccta cgcgcacgtg 300

gtcgtgctgg actactactg cgcctacggc aagtacacgc cgcactgggc gtggctgcag 360

gcggagctgg cgcgcgtgga ccggaagacc acgccgaggc tcgtcgtgct cacgcactcg 420

ccctggtaca acag 434

<210> 35928
<211> 440
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B10

<400> 35928

ccggtctcct ccgcccgttg ccttcgtcct ttccatctcc ggctgcgacg ccggcgagcc 60

ggacaccgcg aatcggatcc gccgacaagg cgagagggaa gagatggggc tcacgttcac 120

caagctgttc agccggctgt tcgccaagaa ggagatgcgg atcctgatgg tgggactcga 180

cgccgccgga aagaccacca tcctctacaa gctgaagctc ggcgagatcg tcaccaccat 240

ccccaccatc ggattcaatg ttgaaactgt ggagtacaag aacatcagct tcactgtctg 300

ggatgtcggg ggccaagaca agatcaagcc actgtggagg cattacttcc agaacaccca 360

gggtctcatc tttgttgtgg acagcaatga tagggaccgt gttggtgaag caagggatga 420

gcttcaccga atgctgaatg 440

<210> 35929
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-054-Q1-K1-B11

<400> 35929

gctagggttt tccatcaccg ccgccgccgt ttcatccaaa cccaaatcaa gccaccaccc 60

gctcctcctc ctcagcggcg agcaccacca gcgacagcga gacacgatga ggccgatctt 120

gatgaagggc cacgagcgcc cgctcacgtt cctgcgctac aaccgcgacg gggacctcct 180

cttctcctgc gccaaggacc acacccccac ggtctggtac gccgacaacg gcgaccgcct 240

cggcacctac cgcggccaca acggcgctgt ctggacctgc gacgtctccc gcgactcggc 300

gcgtctcatc accggatccg ccgaccagac cgncaagctc tgggatgtca gcacggngaa 360

ggagctcttc agcttccgct tc 382

<210> 35930
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B12

<400> 35930

cggacgcgtg ggcgacatct ggcgcgagat tagcggcgcc ggcgaacgcg agcccggccg 60

ggccgacgtg tacatagtca gctggaacga ccacttcttc gtgctcaagg tggagagcga 120

ctgctactac atcatcgaca cgctcggcga gaagctctac gaaggctgcg acaaggccta 180

catgc 185

<210> 35931
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B2

<400> 35931

ctttagcttc ccatgcttcg tatgcattta atatctacta ccagcaaaat ggagccagcg 60

ttgtggcctg tgactttgga ggtgccggaa tacgaacgac gaaagatcca agttatgaca 120

cttgcgtcta tttggctgcc ggcaataaga tgagcacgac gaactcaaca tctattccag 180

ctcgcagcga ctgcggtcca gtcccatgcg ccaaatgctt cgacactttg ctccccatgc 240

tggccatcgt gatggctgca gttatggtgt gatctatgga aaaaaaaaat gctccagcta 300

gcctccttaa gacctgagat gaaaggtgaa ttgcgtaatg ctgctggtaa ccattgaagt 360

tctgtttttg ccatgagcag tagactagta gtagtctagt agagaggcac cttatgct 418

<210> 35932
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B3

<400> 35932

cccacgcgtc cggaccgaca ggacgagtac tcgcagctag ctgacacggc cgagaagcag 60

cttgcattgc aggcgtagta cgtacccagc agcagctagc actagcagtc catcggagcg 120

acgatggtga gaaggacggt gctggcggcg ctgctggtgg ccgccgccct cgccggcggc 180

gcgcgggcgc agctcaagga ggggttctac gactactcct gcccacaggc ggagaagatc 240

gtcaaggact acgtgaaggc gcacattccc cacgcgcccg acgtcgcctt caccctgctt 300

cgcacccact tccacgactg cttcgtcagg ggctgcgacg cgtcagtgct gctcaacgcg 360

actggcggca gcgaggcgga gaaggacgcg gcgcccaacc tgacgctgcg cg 412

<210> 35933
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B4

<400> 35933

cccacgcgtg cggtcttatg tgacatatct atccttggta tctagtacaa gtgtttcggt 60

tggcgtgatg gctcaattaa cgtgtgctag tacgatgcat ctagcagtac actgcagaag 120

ctcgaggttg acagaaccaa cgcgttgaac tgcgctttga ccatggtatt ctacgagctg 180

cacggtcacg acagatgcga tatgcagaca acttgttgtg agcaca 226

<210> 35934
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B6

<400> 35934

gaccttattg ccatttgcag gcgtgctttc catcggtacc ttccttggcg gcacgacgtt 60

cctgaccggc cttcttgctt tcgccgccgc tatgactgtc tggctgcttg tgggcaccta 120

ctgcatcaaa ggtctcatag agttgtgatt agagtatgtt agacttggtg caggggttc 180

aagggtggca cagttttaag agctcaagcg tgggacagtt atggctgcat tgcattcctg 240

tataacggat tcttgatgtt attcatgcac ctatatgctg caaaatccga atgaatcgat 300

gcacttgtcc gttgattcc 319

<210> 35935
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B7

<400> 35935

cggactcgtg ggtccctgta cagaagcttg caggtgacgt tcgagctggt gaacgtggtg 60

aaccaggtga tcaccaacgt gtcgaacagg aacttccccc cgcagctgac gcctttgtac 120

tacaaccagt cggggccact gatgcctctg ctctgcaacc ccttcacgcc tgatctgagg 180

gaccgcaact gcagcagagg agaggttacc ttggacaacg catcccaggt gtggaagaag 240

tacgagtgcc agagcaccac cgtctcagga ggagccgaga tctgcgcgac ggtggggcgt 300

gtgaccccca gcatctacgg gcagatgacc gcggtcgtga cggtgagcca agggctgtac 360

cagtacgggc ctttcctcat ccagctgcag gactgcacct tcgtgcgcga caccttcacg 420

accatcaacc agggctact 439

<210> 35936
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B8

<400> 35936

cccactcgtt cggcaagaga acgaacatgt agagttttga ctcttcaatc attcattcgt 60

ggtgagaatg cacggcaaat ttactcctct ttgttgaaga aacatatagc cgcaattgtt 120

ttgcagagaa atgtgagaag ttggcttgca agaaagtatt tcataaatgt tccgaaagcc 180

taagtgatca tacagtctgg tattcgtggc agtcttgatc gaagatgtaa tggcaatatt 240

gatctaataa atgtgctaag agagtttgaa tcagaacagg acgcacatgg tgaccaaatt 300

ttgatcaagg ccttagtcct ggctgagtta cagaggctga tactaaaagc cgaggccaca 360

gtacgtgaaa aggatgaaga gaacgagatg ctatatcagc ggcttcagca atatgaaaac 420

cgcttgttag a 431

<210> 35937
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B9

<400> 35937

cccacgcgtc cgccacggga taatcatgat tcacaagtac agtttgcatt ggagagaggg 60

gtccctgcat atattggtgt cctcggatca ataaagctgc catttccatc tcgtgttttt 120

gacatggccc attgctcgag atgtttaatt ccatggagtg gaaatgatgg tatgtacatg 180

atggaagttg acagagtact aaggcctggt ggatattggg tgctatcaag cccacccatt 240

ggctggaaga ttcactataa agggtggcaa cgttcaaagg aagatcttcg gaatgagcaa 300

agaaaaatag aatacttcgc acaacttctt tgttggaaga aggtatctg 349

<210> 35938
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-C10

<400> 35938

ggaatgctac agtgtcatcc ttacccacat taatatgcag acccttctag gcagtgtgct 60

cgtggtgctt tcttcatggg cttgtcaagg aaagaaggtg tgaaaataca ggaaggacaa 120

cagttcgata ttcgaggaac ggtggatgag ttcaagcatg aaatcaacat gtatatgttc 180

tggaagcctg ggatggagtt agctggttct catgttcgta agaagcaggt cccagcttat 240

gtgtttccag aaggttataa aaagacctcg ccttcaagac atgtgaacca tcagtctgat 300

aaaaatgaca ctgaagatgg cacaacgacc aagtcttcaa acagtcaact gaagagaaag 360

catgatttct gtggaactga tgatatc 387

<210> 35939
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-054-Q1-K1-C11

<400> 35939

agacagtgag gagggtccgt gttcgtggat gtaatgtgaa atggagggct cttcgccttg 60

agactggtaa ctactcatgg ggaagtgaag ctgttacccg caagacccgt atcctcgacg 120

tggtctacaa tgcatcaaac aatgagcttg tgaggacaca aacccttgtg aagagtgcca 180

ttgtgcaagt tgatgctgcc ccattcaagc agtggtacct cactcactat ggagttgaca 240

ttggtaggaa gaagaaaacc cctgctgcat agaaggataa tgctgangga caagaggttg 300

aggcagcagc tgaggaaacg aataagagca accatgtcac gaggaagctt gagaagcgca 360

aggagggacg tacccttgac ccacacattg aggagcaatt tggcagtgga cggttgctgg 420

catgca 426

<210> 35940
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-C12

<400> 35940

ggagcgcgca cgcacacacg agacagaagc cttgaatcga agcatcaagc cctttctctg 60

agcgccgatt gcacggtatc ttctcgcccc cacttccacc tcctctgccc ttctccccaa 120

agatggcgtc aagaactcgc cgacgtcacg gcccctccgc cttcgtgcgc tcggctccag 180

gaccagcaag gcgcggcaca tcat 204

<210> 35941
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-C3

<400> 35941

cccacgcgtc cgcggacgcg tggggcctac cgctccatgg ccgagctcga ccaagccggc 60

aggcgcacgc catttcgtct taaccgcatt aaggatcttc agtgcttccg tttcttcctc 120

tcccattatt ttctttggta accgacgcca ttgaaggcct ccatgaatac ccgccggcgc 180

ccccatgacc tccctggccg acccttcccc tctccctcct gctccctata aaaccgagct 240

cctcctctct cctctctccc tcgcctaccc gagctctctc tcattcctcg cactctctcc 300

ctcgccgttc gtcgccggag ttcgccgttc atcaccggag ctaagccacc ccaaagttga 360

gcccctgctc ttccacccgg ccgatacccc gtcgagccct tcccgtcaca cgtacgaacc 420

t 421

<210> 35942

<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-C4

<400> 35942

attacctgcc ctagccgtcg tcgccgctcg tgttcctgag aggtgccggg accgacgggt 60

tgggcgagtt ctatgtagag aatcggcttt acttgtctca gcccgttgtc tgctgcgtct 120

ggcggtggtg aacgggagaa attcgtgaga tctgatccgg atcaggcgcg cgagctcggg 180

aatcaggggt ttcacacata gcttcgtcga tttgaatctg atgtactaat ggactctaat 240

ggtggcaaaa agtctagcat tagtcgctct atgatgtatg aagctcccct tggctacagc 300

attgaggacg ttcgacctgc cggacgcgtg tagaagttcc agtctgctgc ttactccaac 360

tgcgcgaaga agccatcctg atataccttt tggcttcctc attctag 407

<210> 35943
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-C5

<400> 35943

cccgctcctc cactccacca ccaccggtca gatacggatg tctccgcccg cacgttcggt 60

tcacaaacga aaacccgcag caaacgctag cagcggcggc gccggcagtt ggtagccgcg 120

accgagacac ggcgggtgac ctgccccgcc gcagtcgggg tgtatgtatt accaccgaca 180

gaattccagg agacgaggat cgaggaggca ccgatccgta gcggcgatat cgtagagccg 240

ctggtctcac gccgcaccga gacaatggca gaccagttag ggtcttacac tattagatcc 300

catggaatga tattggcaag gttgcacatg tatgactgga taatacttct cctgcttgct 360

gtcatagacg ggctgttgaa tataattgaa ccatttcacc gttttgttgg gaaagacatg 420

atgactgact tgagata 437

<210> 35944
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-C6

<400> 35944

ggaaagacta tcgaagctga agctggctat ggtactgtta cccgtcatta ccgtgttcgc 60

cagaaaggaa gtgaaaccag tacgaacagt attgcctcaa tctttgcgtg gacaagagga 120

cttgcacaca gggcaaagct tgatgacaat gctagactac ttgacttcac ccagaagctt 180

gaggctgcct gcagttggag ccgtcgagtc tgggaagatg accaaggacc ttgcccttct 240

cgttcacgga tcttcaaata tcacgaggag ccattacctg aacactgagg agttcattga 300

cgctgttgct gacgagctca gatcaaggct ggcggccaac tcgaaccttt gaaatccttg 360

ccgaagttgt ggtgctttcc tgcgcgacgc tctcgaaccg tttttattat gtc 413

<210> 35945
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B1

<400> 35945

aatggaactg ctgatacctg tcacgctttt ggccaccctg atcaagacaa gtcatttggg 60

aggcgttcag gccaaagatc tagggtccgg aaacttcaat acattgctga acttgcaaga 120

actgttgact cacttcagaa cattggtgct gatttggctg tcagagtgtc atcactttc 180

cagcttcata atgctctatc tatggaaaac aagcagctga ggatacagat ttctagtctt 240

cagcgtgcaa aactgattaa ggatggtcag acgcaggccc taaagaacga agccgaaagg 300

ttgaagcgga tgtccgtccg ccggagcaga agcgccacgg actactgtta cgacccgggc 360

tcgttctcgt tcggagcaga tgcttcgtca gtcagctggc agatgcctga catggcaagg 420

ctc 423

<210> 35946
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-H1

<400> 35946

aagagctcgc cgcaatcaaa atgcaggccg ccttccgagg ttacgtggca aggaaggcac 60

taagagcact acgaggcctt gtacgattga agtcattggt tgagggtaat tcagttaagc 120

gtcaatctgc aagcactctg cgctgtatgc aaactctatc gcgggtgcag tcacaaatac 180

gatctaggag agcaaagatg tccgaggaga accaggccct ccaacgccag ctcctactta 240

aacaggaact ggagaatttc agaatgggtg agaactggga cgacagcact caatccaagg 300

agcaaatcga ggcaagccta ataagcaggc aagaggcagc gataagaaga gaaagaactc 360

ttgcatatgc attttcacat cagt 384

<210> 35947
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-H10

<400> 35947

tccgcccggg gttcctttta tatatttccc ggtttttttt tgcggatgag gagtcaacaa 60

gctgggttat tgtatgcaaa ggcgtcctga accaaattcc cgtcgttatc ttggtgtttg 120

tttccactct agttggctgg gcagtgaagc aagccaccaa cgtcatccag atgaaaactg 180

ctgcggacgc atgcgtggtg tatgatctga agcgcagcaa atgaagcatg aaggcagctt 240

cacggtttag tatcgacata tccaagggaa aactctgcga gggggcgggc tacgtcttgc 300

gtgccttgac atctttctga tgatgcggtc atatgtggga ccaggggatg aca 353

<210> 35948
<211> 231
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-H2

<400> 35948

ttggccgatt tcttggccga acccttggcc tcgcccaaaa ctgaactcag agccatttcc 60

taaattttag tgggganaaag gggcaaattt gcaccgtatt accatggcat ggctatatgc 120

ggaactgttg attgatgagt cgctgtacgg tttgtcgact tgatgatatg ttgatgtggg 180

agcccctgaa tgaggcggta ttaatggaaa tataggatgg caatgacaat c 231

<210> 35949
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-H3

<400> 35949

gtccctccaa ggttgttaag gtttctatct ccaagactgg taagcatggc cacgccgagt 60

gccactttgt cgccatagac gatattcaat gggaaaaagc ttgaagatat tgttccttca 120

tcacacaact gtgacattcc gcatgtgaac cgtactgagt atcagctgat tgatatttct 180

gaggatggat ttctgagcct tcttacttca gatggcaaca ctaaggatga tcttagactc 240

ccaactgatg agactcttgt ggcccagatt aaggaagggt tcgaaagcgg gaaggatctt 300

gttgtgactg tccactctgc gatgggggag gagcacatct gcgcgttgaa ggatgttggc 360

ccca 364

<210> 35950
<211> 268
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-H4

<400> 35950

acccacgcgt ccgcccactc tttcgccctc tcgtccgttn atggtccaca agcgactatt 60

actggaatct agaaacattc tattgaatgc gtcgatggct gcaacgtaat cagagcgtag 120

ctctgggtag tttgggatct gcaaacactc tattgaatgt atcctggact cagcataaat 180

gatagatata tcggaggatc actatatgat ccacaccacg tgagatggca acactaagga 240

tgatcttaaa ctcccaaata atgagact 268

<210> 35951
<211> 112
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-H7

<400> 35951

cccacgcgtn cggaatgatg gatatcgtgt ctatgcaagt ttccaaaagg gaccccatag 60

ctgcttctgt ctctgttgac gggaaagaaa aaccctgcna ccccctcaag ca 112

<210> 35952
<211> 336
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-054-Q1-K1-A10

<400> 35952

aaacaagcaa tagtgaagaa agctgtcggc ctttcgctgc ctgctcgcag ttgccagccc 60

cgggggtcgt ggaagacgga aggaagcgaa tcaaccgcga ctgtctncga cgggaataaa 120

gcaggcgaag ccagccggtc gcggaacccc caattctcag ctgcggccgg cgatcgagtc 180

ggttccgtcc cgcgccgatg cggatcccgc ggcggaaggg cggggccggg ccgctcgctg 240

tcggggtgcc cagcatgcgg gcgcaagtcg ccgcggtctt cgcgctcgtc gcactgctgg 300

gggtctccgt gctctacgac aacgcccaca ttggcg 336

<210> 35953
<211> 74
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A11

<400> 35953

ggtattctta cattcttttg cactgctttt ttcaacttcg atcaattgcc acctaatcgg 60

ggggacaaca aaaa 74

<210> 35954
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A12

<400> 35954

gctgcagata tgttggtagg agtagttgtt tatgtagctt tagtcggcat gttagcgcca 60

tgggctcgat ttggtagcag atctgcatca aaaagtctcc ttgggcgcgt taggcatgct 120

tatgatgccc ttccaagcag cgtttttaa acttaaaagc caagatacaa attttctgtg 180

caacaacgga taagaacata ctttttcaaa ggaataattg aattggtctt gtggattctt 240

tttggagtct tgtgggacaa gggattgcta attttgataa tgacagccaa aacgggagtg 300

taaagaagtc agaggatgat gtccctgttc cacctcttct caagacttct gctttgtggg 360

gtgcattcct tgctgtttct tccaacaca 389

<210> 35955
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A2

<400> 35955

ccactcatct tttcgcgttt agaaccttta aaatttcccc cactcgccag tcgcagcagg 60

acctgtagcc atggacgcca gcggagccgg tagcaagggg aagaagggtg cggccggtcg 120

caaggcatgc ggacccagga agaagtcggt gacgcggtcc gtcaaggccg ggctgcagtt 180

ccccgtcggc cggatcgggc gctacctgaa gaagggccgg tacgcgcagc gcgtgggcac 240

tggcgccccc gtctacctcg ccgtcgtcct ggagtacctc gccgtcgagg ttctggagtt 300

ggcatggaac gcggcgaaag acaacaagaa gacgcgcatc atcccgcgcc acgtgctcct 360

ggcgatccgc aacgacgagg agctcgggaa gctgctggca ggcgtcacca 410

<210> 35956
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A3

<400> 35956

taccatgacc gagcgaccgt agcaagggaa aaggtcggcg gcgcaagcag cggcccagaa 60

aagtcggacc ggccgtcaag gcggctgcag tcccgtcgcg gatcggcgct acctgaaaag 120

gccgtaccca cgctggcact ggcccccgtc tacctcgcgc cgtctgagta cctgcgcgag 180

ttctggagtt ggcaggaacg cgcgaaagac acagaaacgc gcatatcccg gccactgctc 240

ctgcgatccg acgacgagag ctgggagctg ctgcagc 277

<210> 35957
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A4

<400> 35957

cggacgcgtg ggcggtcgcg tgggcggtcg cgtgggctat ccgcgagcct cgtaccgggg 60

cagccatggc ggaggagccc gccgttgtcg tggcctcctc cagctacgag gttgacctcg 120

ggaacctcat ggcgtacgat ccgtcgcatc acgtcgccac cgccttcagg gaggagctga 180

gacaggagtg cctgcggaag ggtacagagc tggcgcaggc ggtggccgac gtcctcttcg 240

cgctgccgtc caacgaggac cgcgacggcc ccattatcca ccttccgccg tccaccttca 300

gactcccgcg ggagaagcat ctacccaagc ccaagccacc gaccaagtgg gagctgtttg 360

caaaggcgaa aggaattacc aagcgcaaaa agaacaagcg tgagtgggat gagcaaactc 420

aatcctggaa gcggactcat ggc 443

<210> 35958
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A5

<400> 35958

ctacaccaag ggtgatggcc ttggcgctga gattgttggc accttcatcc tagtctacac 60

cgtcttctca gccaccgatg ccaagaggaa tgccagggac tcccatgttc ctatccttgc 120

cccactgcca attgggttcg cggtgttcct ggtccacctt gccaccatcc ccattactgg 180

cactggcatc aacccagcta ggagccttgg cgctgccatc atctacaaca gggatcacgc 240

ctggaacgac cattggatct tctgggtcgg ccccttcatt ggcgctgctc tggctgccat 300

ctaccaccag gtgatcatca gagccatccc gttcaagagc aggtcttaag ctgccgtggc 360

cgtgccgaga catgccagtc cgaagaacgg gcgtcttcct gtgatgtctt cttgtctggc 420

cacgcctagt ttctctgtcg attc 444

<210> 35959
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A6

<400> 35959

tcggttcaca aggctgttgg tcatagaact tttactgcag agactgtgaa gctagagatc 60

gttgtgttgt tatcctacca tacacttttg aacgcacagg actgccatgc tgctatgctt 120

ggccgactat catatgctgt cgagtctgtt atgcagaccc ttgtcggact ccgcattagc 180

gtaacgattc tcaacatact taggatcctg ggcactagac acatgtacat ctggcttaac 240

tcgttgcaca accatagggc cttatagggc gtgaccatga ttgtcgctga tcatactggc 300

acttacgacc agatggtcat aactgccata cctttctaga gcacgattta cgctgaccag 360

gtcatacttt gacatgccat gatccagaac ggactgttac ctgtgatggc tacttgactg 420

acaacgccta gcatgaat 438

<210> 35960
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A7

<400> 35960

tcgtcacgcg tccgcccacg cgttcggatc ttcacacatg agctggagtt ctttgtttgg 60

agaaatggta cctttacaaa ttgttttata gaagtgactt ttcattatta tagtaaagaa 120

tgtgtgtgat ctctatgctt gcttcatttt gatcctgtta ttttgtatta aaaaatccct 180

gtttgagggg aaacaatact taggatcctg ggcattagat tgatgtagtt gtaacttaag 240

tcgattg 247

<210> 35961
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A8

<400> 35961

agcgaacgtg ttgataaact agttggttat gcttcgagtt atcaactcaa ggatgaccgt 60

attcaaactc ctggaaagga tgcgagagtt gtcctttctg gtgtaagcct taagtatgga 120

attgatttgt tggaaagtat ccaaagtggc cctaagaaga agagcacaaa gaagtcactc 180

aaggatgttg tcacagagaa tgaatttgaa aaacgtcttc ttccagatgt catccctcca 240

gatgagattg gtgttacctt tgaggatatt ggagcattag aaaatgtcaa ggaaactttg 300

caggagttag ttatgcttcc tttgcaaagg cctgagttgt tctccaaagg acaacttatg 360

aagccatgta aagggatatt gctttttggt ccacctggca ccggtaagac catgcttgcc 420

aaagctgttg caac 434

<210> 35962
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G9

<400> 35962

cccacgcgtc cgaatatatc tgaagattgt tgcaaagaag aagggttcca aggattgcag 60

ggctaatggt ttgaagaaga aggctactac tgctactggc tctgatgagg accactcatc 120

ctctccaact cgcagacatg atggtgacaa agcagctgca gatgatgatg acgatgatgt 180

ccagtggcag actgacactt caattgaggc tgcgaagcat cgcatgcaag agcagctgag 240

tgcagcaact gctgaaatgg tgatgctgtc gactgaggag actgagaaga agatgaaaca 300

ggcaacccac aaagatggaa gcactaatgg ttcagcaaaa gaaatcccta atgac 355

<210> 35963
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-054-Q1-K1-A9

<400> 35963

cggacgcgtg ggcaccaatg atgcgaagtt ttgtgatggg aacatatgtc atcgcaaagg 60

tgaagaaaga agacggaaat atttatgtct tgttgaatgg gatgggtgcc acaccagaag 120

gaaatgttcc attcctcgat ttgtttgata taaatactgn gagtaaagag cgtatatggg 180

agagcgacag ggaaaagtac tatgaaactg ttgttgcact gatgtcagac aaaactgacg 240

gggaactgct ccttgatcag ttaaagatac ttacgtcgaa agaatcaaaa acagaaaaca 300

cacaatatta cttgcagact tggccagaaa agaatcaagt taagataaca aatttcccnc 360

acccatatcc tcagcttgct tcattgnata aggaaatgat aagatc 406

<210> 35964
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E8

<400> 35964

cccacgcgtc cgcccactcg tccgttggtc ttcaacaaca tcacgcggct agcctgcggg 60

atacggttcg tggacgcgag cggccaactg gacgagcaag ggcgcgagtt caaggggatc 120

gtccacaacg gcatcaagat cggtgcgtgc ctctccatcg cgcagcacat accgtggctg 180

cgctggctgg ccccggtcga cgagcaggcc ttcaaagccc acggcgaacg gcgcgaccgc 240

ctcaccgtga agatcatgga ggagcacgcc agggccctca agcagcgcgg cgcccagcag 300

cacttcgtcg acgcagctct tcactctcag ggacaagtac gacctcagcg atgacaccgt 360

catatgcctc ctctgggaca tgatcaccgg cggcacggac acgacggtga tct 413

<210> 35965
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E9

<400> 35965

cagatatatt gaattgtggt aatattatta ttattatcct tttcgttgca gaccatggga 60

gtaatccaac cttagtgcga gagtagatct gtgcacttta aagccgaacg tttgtggatc 120

cagaaagaag aaaatttttgt atgtatatat gtgtagatcc aggtgatcgc tattgttagc 180

ttttgtttac aatggtcgcc acccaaaaaa gttgtaactc gccctttttt ttttttttt 240

tcaacaagca tgcaaacaaa gtgattatgt ctagatcttt acatagcgcg acaacagttc 300

atgaccaagc aacattacaa gcgtctgata gtgtcactgc ataagcaaac atagtgctaa 360

caacattatt cacaactc 378

<210> 35966
<211> 321
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-F1

<400> 35966

cgcgtncgca atgactctga tttataaccg agtactagat gccaaattct ttgtaataaa 60

atcctgcacg gatgaccatg tacatagggg cgttaantat aaagtttggg ccagcacagc 120

cagtgggaac atgaagctgg attctgctta ccatgcagcc aaagagaaag aagagcattg 180

ccctattttc ttgtttttct cggtaagaac agctcatctc ctttggtttt ttgcttttcc 240

cttcgaggaa aaaaagagta acagtacata gtgggtgttt gatcctttat tagcatgtgc 300

taaggtgttt ccgattttgg t 321

<210> 35967
<211> 355
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-F10

<400> 35967

cgtccggcta gtggtgacta cccaaactgc actgtttttg cttatgaaaa ggcanttgcc 60

gatgggggggg atgtcattga ctgtcctgtg caagtgacta aagatggcat actgatatgc 120

atgagctctg ttgacctaat ggatgttact actgttgcaa aatcacaatt tgcttcgcaa 180

gtaactacca tcaacagtct gaaggctggg tctggagtct tcaccttcaa ccttacttgg 240

gatgatattt ctaagaacct aaagcccatg atatcgaacc caatgagcac ctataatctg 300

tacagaaatc ctagaaacaa gaacgcagga aacttcatga gattgtcaga ctttt 355

<210> 35968
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-F11

<400> 35968

cttccgccaa gggttnnntg tttccttggc cggttccttt tcccccgacc tcaaactcta 60

accgggcggt ttccgttgcc ggaaggggggg ccaaccttaa caagccggtc cttcatccgc 120

caccatgggg aagacccgtg gtatgggagc tgggcgcaag ctcaagaccc accgcagaaa 180

ccagatgtgg gctgacaaag catacaagaa gagccacttg ggcaatgagt ggaaaaaacc 240

ttttgctgga tcatctcacg ccaagggcat cgttctggag aagattggta ttgatgccaa 300

gcagccaaat tctgccatcc gtaagtgtgc ccgcgttcag ctggtgaaaa acggaaagaa 360

gattgc 366

<210> 35969
<211> 329
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-F3

<400> 35969

ttttaccgga gcggaggctc tgttttgccc cctttgccga tcggaaaaag ttggctgcca 60

ctgacctttt taatttgacc agaactgttg actcagccac gggtttccaa ccaaaggtcc 120

tgggctcttg gatggagctg accctgccag agggatggga gcaaaaagga agaactcagc 180

ttgtcaccct gggctcangc aggttctgcg tcgcaaggtt catgaatgag atgtttgatc 240

catacgggag tggatatgtt ttattgaccg gtgtggagat cgttcctcat tttgacaatc 300

tcactggtaa tgacngtagt agtggcagt 329

<210> 35970
<211> 226
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-053-Q1-K1-F4

<400> 35970

acccactcgt ccgctcaccc aacacccgta ttgagcggct ggtgagggat cggatcgtcg 60

gcggctatgg aagacgattt tcagagggca gcgggcccca cctctaacna ccttgactat 120

tacgcgaaat cccatttcgt gtcatacgca ctgtcctttc gcgttaaatg ataatttttc 180

caagggtccc ctcctcttga cgatcccaga tcacgtccgc ttcctt 226

<210> 35971
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-F5

<400> 35971

cggacgcatg gtctttaaag gggtttgtta tagagacaag acagagagaa caaagggaga 60

gatagttgag tgggagacgg gcgagaggct gccgtgtagg gaccgtagac tcagcgactg 120

cgaaggaggg ataaggggat ggccgggatc ggaccgatca ggcaggactg ggagccggtc 180

gttgtgcgga agaaggcacc caccgccgcc gccaagaagg atgagaaggc cgtcaacgcc 240

gcgcgccgcg ccggtgcgga gatcgatacc atgaagaagt acaacgctgg tacgaacaag 300

gcggcatcca gcggtacatc cctcaacacc aagcgcctcg acgacgacac cgaaaacctc 360

gcccatgagc gagttccaag tgatctg 387

<210> 35972
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-F7

<400> 35972

cccacgcgtc cggtatgtaa agcagatctt ttcacagcga gtcgcagagg gatagatccg 60

ggcacattca ggccccgatg gcgacgacgg ctacgaaccg gcgggtgatc ctcaaggagt 120

acgtggaggg atacccacgc gaggagcaca tggagctgct ccggggcgcc gaggttcccc 180

tccgcctgac gggcgccgag ccggccgggt ccgtcctcgt caggaacctc tacctcttct 240

gcgaccccta catgcggccc aagatgtcgc gcccgctgcg ggagttctac acgggcgcct 300

tcgttccggg cgacaccatc acgggctact gcgtcgcgcg cgt 343

<210> 35973
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-F9

<400> 35973

cttatacact cattattaaa tcattttcta gtaaacatca ttaaatagct cttaggggga 60

gccatatgag tgtgtgtgcg ggacaccaga ttataactca tcatcctact tgacatccaa 120

atacacttta tacagactcc cctctcacat ttcaaacaat caaaaaccat acggttcccc 180

ccctaatata tttccaaaat cacgtacccg ttcatc 216

<210> 35974
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G1

<400> 35974

ttgcatctca gtatgtctac tgctgcggga tatttgaact tgaggctgcg taaagtcaat 60

gttaatggcg gtgcaatggc tcttggacat cctttgggtg ctacaggtgc acggtgcgtc 120

agtactcttc tcaatgagat gaagcgccgc ggcaaggatt gccggttcgg agtgatttct 180

atgtgcatag gttctgggat gggtgccgct gctgtgttcg agcggtgaga cggcgttgat 240

gagctcacca atgctcgggg aatctc 266

<210> 35975
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G10

<400> 35975

ggggtccgga ttatgaattg atggttactg atctgctttt tattattcgt tcaaatcaag 60

ctttgtgaga ggatcactgt cagtatttgc gttatcaaat tcttcgtggc ttgaagtata 120

tacattcagc aaatgttctt caccgtgact tgaagcctag caatcttctt ttgaatgcaa 180

actgtgacct caagatatgt gattttgggc ttgctcgcac cacctcagaa actgatttta 240

tgactgaata tgttgtcaca agatggtata gagcaccaga gcttttgttg aactcctcag 300

aatatactgc tgccatcgat gtgtggtctg tgggctgtat atttatggaa ctgatggacc 360

gcaaaccctt gtttcctgga agagaccatg tccatcagct acgtcttcta atggagctca 420

<210> 35976
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G11

<400> 35976

aatgccgata ggaaagcagc actatacgct ggctcataga tgttcaatgt cgtcacatcc 60

gctggtatca tcatggtcaa caaagcctta atggcgacgc atggctttag tttcgctaca 120

acgttgaccg gacttcattt cgcgatgacg accttgatga cattagtaat gaaatgactg 180

ggatatattc acccgtccta tctatccgta cctgaactaa ta 222

<210> 35977
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G3

<400> 35977

ggggaactat tagaattctt tttttgcact cacacgtggt ggttttgctg gagagctact 60

agttcagcag ggtgaacaag atgaactact tccaccaccg aagttagagt catcaaagtc 120

acctgatgga gggaagtccg tcagctcgtt cccaaaccaa gggtgtttct cacagttctt 180

tgagggtctg gattggatga tcccgccttc ctgctaccaa gactccaatg gcatccattc 240

agttaccgca tcggatagca tctttaatcc gtctgaaggt atacctcctt ccacaatgaa 300

cgcggacggc atggacgcgt tccaaacttc ctgcctttcc gagtgctttc ctaattccat 360

ccaagaattc atcagcagtc cagatataaa tacactgaca ttta 404

<210> 35978
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G4

<400> 35978

gtcccgattc ccactctcga catcttcctg tccccatcca tctcgcccgc gacgtggagt 60

ggattctctg cgggcctggg gatccattat gtcttccttc tccgccgtcg ccagcatcag 120

gggcgccgct tcccccaggc cctcgcgcgt cgccaccctc tccagcgcct gcgccggcgc 180

ccgctcccgc gcgctccttg ctggccacac ggactcaatc cttgaggtgc tggcacagga 240

cgatatgctg aacgcaaagg agctgttcca atgggagaat ggcttgtcat tcaatgacat 300

accggctacg caggggattc gcatacgcat acactgtcag cccactgcct tcttgaagga 360

tatagaggag gagctgtgac ccccccttaa cattctagag catatcattt t 411

<210> 35979
<211> 298
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-G5

<400> 35979

ggaacagatg tgcactctcc agttgtgcct cntaaatgcc actccataca aaacatttag 60

ggacctatta cctggtaggg ggcttccaca ggacttcctc tgtgcaatta aggcagcaga 120

ttacagctct gcaacaacaa agattaatgt ggctgtcgac agactgccac agttccagtg 180

ttgcaacacc aatcttgaat gttgtccaga gcacatgggc acaatacaca ttgggtccga 240

aagcatggag gaaattgacg ttgcatacac ggaagcagca gacggcatct ctttcaaa 298

<210> 35980
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G6

<400> 35980

cggccgaccc acgcgtccgg gcgcacggcg caccgcacac ctcactgtct ctcccttctc 60

gtctcctctc ctctgcgtgg cctcgtcgga tccggcgccg acccaccgcc cctctgctcg 120

ctccttccgc cggaatcgct gctcctctct gtgctgtcga tttgtgcggc gactgttagt 180

ttggttcggt cccatccttc tgttgatcaa tggctgacgg tgaggatatc cagccacttg 240

tgtgtgacaa tggcactgga atggtcaagg ctggctttgc tggtgatgat gcgcccagag 300

cagtgttccc tagtatagtc ggccgccctc ggcacacggg tgtgatggtt ggaat 355

<210> 35981
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E7

<400> 35981

gtttcctccc ttcccatccc ccactgctta tcagtcagtc agcactcgcc acccacacgg 60

gttcgttccg gccacgggtc gactccaact ctccgatctc caggaatccg cggctgaggc 120

gccggcgatg gcggctccca tggtcgacgc cgaatacctg cgccaggtcg acagggcgcg 180

ccgccacctc cgcgccctca tctccaacaa gggatgcgcc ccgatcatgc tccgcctcgc 240

atggcatgat gctggaactt atgacctgaa gacaaaaact ggtggtgcaa atggttcgat 300

tagatatgaa gaagagtaca ctcatggttc aaatgctggt ttaaagattg ctatcgatct 360

<210> 35982
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G7

<400> 35982

cccacgcgtc cggcatctgg atgctgattt ccaccgcaag tacatctatg gtctccatgg 60

ggctgagtat atgaagaatg gggctgatga ggagcccgag aagtaccagg ctcacttcag 120

cgagtacatc aagaagggga ttgaggccga tgacatggaa gctctgtaca agaaggtcca 180

tgctgccatc cgtgctgatc ctagcatggc caagtcaaca aaggcgcaac caaaggagca 240

caagaggcac aaccccaaga agttgaccta tgagcagagg aaggccagac tcgtggaaag 300

gctcaatgcc ctcaattcct cgggtggtgt cgatgatgat gaggatgacg aatgaagtgc 360

tagtcg 366

<210> 35983
<211> 218
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-C11

<400> 35983

ctgggctgca gttccccgtc ggccgcatcg cgcgctacct caaggccggc aagtacgccg 60

agcgcgtcgg cggtggtgcg cccgtctacc tctccgccgt cctcgagtat ctcgcggcag 120

aggtgttgga actggcgggc aacgcggcgc gcgacaacaa gaagaaccgc atcgtgccgc 180

gtcacatnca gctcgccgtg cgcaacgacg aggaactc 218

<210> 35984
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-C4

<400> 35984

gcatgattga gacatctagc tagaactttt agatttcaat gatggaagaa agctcagggg 60

gcagttatat aacattatgg gcttccagtt ttggcatctt ctattgtgtt aagaaaactt 120

cattttaact gacaaagtgt catcttacta tttagtttgc taaagggatg ttactcatgg 180

ttagtccaca atattttaca tttttacata tcttgtagct cttcactttc aggtttctta 240

aggaactaga cttacaaaag agttgtgtga aacatcaaga ccatcagtgg attaattgtt 300

ttcccaagtc ttcaacatca ctagaatgct tgaatttttc ctgcttgact ggggaggtga 360

atgcttgtgc actggaggaa cttgttgcaa ggagtccaaa tcttaaa 407

<210> 35985
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-C5

<400> 35985

cccacgcgtc cgcgccaggt cttcgttttt cctttggctg gaaacaagca tccaccaggg 60

acaactcaag ggatgctcga gtggctctag ttacttagca gaaccaaaag aggaaggcca 120

tcaaagatac gagggctttt tctcgccatg tctcggtcgc cacacctccc accccgctgc 180

ccacccctgg gtcctcagat cactcgaagg gatgacagca tgttcacgca gagctgcagg 240

tttccatctg gggatacgtt ctttagtgag ccaccgtgct ggctcgatga tctccttgca 300

gattccggga aaagctccaa gc 322

<210> 35986
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-C7

<400> 35986

tccagctcta gtgaagcaag atttccaatt tctgatataa tcctaagaac agttactggg 60

agtatgtttc ctgttattga tccacggcaa gtaatctcca ttcaggaaca tgagtatgtt 120

tattgcctgg caatcgtcaa gagcatgaag ctcaacatta ttggacaaaa tttcatgact 180

ggtcttcgtg ttgtgttcga tcgggaaaag aaaattcttg gatggaagaa atttaattgt 240

ttctcacctt caacatctga gaactactct ccgcaggaag caaggaaccc agctggtgtt 300

tcccagttga gaccactgaa caattcatca ccagcagcgt tatatgat 348

<210> 35987
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-C8

<400> 35987

cccacgcgtc cgcccactcg tccgctgtct cgtgggcgga tgggcaagtg atgccatgcg 60

ttatgtgaac gtggaggtgg tgggcgtgga cacgcgaccg gacatcgaaa gagcagtctc 120

gtttagggag aagccgagga cgagcatggc gccgccgccg ctgccgacga cgcgagatgg 180

acggaagagc ttggaggcag cgccgtacca cgatgtcctt gacctgaagc agctgctcga 240

tctggctgac aaggaaggcc gggtggccgt gtatgggaac aaaaggaact ccgacaccag 300

cagcgtgagc agcgtcagta gcagcagcag cggcggcaca accagcatca gcagcgctag 360

caccatcggt ggcgcgagcc 380

<210> 35988
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-C9

<400> 35988

tacttctata tctcaatcag acgccccttt ttttatctta tcctaatatc atttactaga 60

ttttttaac atgttagtga gccaccccaa ctcatctcca ttcattaaca tattattttt 120

attttctttc aatcttcaat atcattaatc tcaacaaaaa aaacaaaatt tcataactat 180

tcttctttta aaatcccacc gttaaaccaa aattattcaa cccacacatt taatcaaaaa 240

tcaccttcat catctaaaaa ctactttaaa caccaaacaa cgaacccccc taaaaattcc 300

caaatgacac cactgaacaa tt 322

<210> 35989
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-D1

<400> 35989

gggttcagat taaaaaggca gtgtgaggtc tatggatgcg tgtgaggagt atataaagga 60

cattataaat caatgggagc aaaggaaagg aaaggaaagg aaagggagaa aatttcatat 120

agcaattgtt tcgcgtatag gagggagaac aaaggtcgcg tctcgaaagt tcttgccttg 180

ttgggaaggg atggcgtcgg aggtggagga cgacgcggcg gtgccgggcg cgccgctggt 240

cgccaatggt gcagccgacg tccgccggag gagggatcag gcgaaggcga ttttgtccaa 300

gcaggccgtc aagatcgcca ccaatgccga gcagcacgag cgcttcatct ttaaggtcac 360

aca 363

<210> 35990
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-D2

<400> 35990

aacgacgaga ggtgcaattt ctccaataaa agccggaaca acggcagccg gcgcgtcccg 60

gtggccggag ccggtggtgg cggggactct ctgctgaaga gatcgtccag catgagagac 120

gccccggcga tcggccgcgg ctcctcggcc ggtgcgggcg ggtgcgcggc gcatcatccg 180

ccgtcgttct cgagccggtg cgcggggctg gtgaatgagc atcgggcgcg cttctacatc 240

atgcgccgct gcgtgaccat gctcgtctgc tggaaggacc gctcgt 286

<210> 35991
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-D3

<400> 35991

cggacgcgtg ggcggtctcg tggggtcttc gcttgcttcc tttcgaaagt ccttgcgtgg 60

caggctccta tcgatcgagt gtgtccggat tccanagagg cccaactgcc gaagccatcg 120

atcgccgcca cctcttcgag cagaatagtt gagaatggct gacgaggata tccagcctat 180

cgtatgtgac aatggcactg gaatggtcaa ggccggtttc gctggtgatg atgcgccaag 240

agctgtcttc cccagcattg tgggaagacc acgccacacc ggtgtcatgg tcggcatggg 300

ccaaaaggat gcctacgtag gtgatgaggc tcaagccaag agaggcatcc tgacactgaa 360

gtacccgatt gagcatggca ttgtcaacaa ctgggatgac atggagaaaa tctggca 417

<210> 35992
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-D5

<400> 35992

tctgactctc cgctgttcgc tcactcttgt agctccaccc ttcactcagt cttaggctgt 60

tattatctct aggctctagg gagccgcgcc actccttcgt gtagccatca gccttctcat 120

cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc gaggaagcgc 180

ccgtggtgga gaccccgccg ccggccgtcg tgcccgaaga gtctgccccc gccgaggccg 240

aggccgaggc cgaggctgct gctcctgctg atcccgagga gcttcccgcg gccgagcagc 300

aggcagccgc cgaggcggag gccgcggctc ctgctggtgc cgaggagccc gtcgcggccg 360

aacc 364

<210> 35993
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-D7

<400> 35993

cagcaagatc aacgtcttcg ttcaagcctt cggtagtaga gactacgacc gaggctgggg 60

aagctaagag atggcggatc ggcagtactc ggcgtggacg acttccgctg ctcgtcatcg 120

ggtcttctcc tgtgcgctca tggctcttgt tagttttgtg gctgccggac gacccatggt 180

gctcgccgac gccatcgtct ttcacgtggc gaacaagtgc ccgttcccgg tgtggccggc 240

gtccgccccc aacaccggcc acccggtgct cgctggcggt ggcttctatc gtcccgcagg 300

caagtcgagg cgcgtcgt 318

<210> 35994
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-D8

<400> 35994

agcaaaccac accagtcacc agccttattt tctcaacccc aaaccaatcc gtcgcggacg 60

ctcattgtcg caggatgccg gcgccncctt agcaccacca gccccaggac gaagaggacg 120

acgataccgc aggcgttgtc aagctcatca gcgccgaggg cttcgaattc gttgctgaca 180

ggaaggccga catggtctcc aacaccctcc gcaacatgct cacatcccca ggcgggttct 240

ctgagacgcg ccagggcgag gtccgcttcc cagagatccc caccaacatc ctcgagaaga 300

tctgccagta tttctattgg tcgctccatt actccagtgg gaaggagaca gcggag 356

<210> 35995
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-D9

<400> 35995

gtgaacatcc aatcttatat gccttttctg ctatcagcag caccagaatg cctaccacga 60

taattattac atgccggggt ggcctctact aacactcaca acccttttctc ttaaacatct 120

atgtatacaa atgtacgcta attgctcatt atatcacatt tcttgttata ccacccatgg 180

cgctagccaa caccatctca tataacctct cgaacatgct cccattccca gtttgttctt 240

ctaaaaacac taacaccgac caccc 265

<210> 35996
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-E1

<400> 35996

gtgagcttga ccaantggcg agggcgaatg attctgctgc tgggggacat gaagctgana 60

agaagatgat ggagggtgaa ttggagatgc tgaaggtgaa cgtggacatg gttcaggctg 120

agaaagatag tgccttagtc ttggtagatg ctaaaaatgc tgaggttgga aagttgaggg 180

atgaactgaa gaagctcaac agttccatgg ctgcgctccg tgctctctat gatgatcttg 240

atggaaagtc ttctttcctc cacgatgaga aagtttcggt tctcaaagaa cttgagcagg 300

agaaagctga agcagaaaag ctgaagtcca aaatccagga g 341

<210> 35997
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E11

<400> 35997

ttccgaactc aataactgaa ctctttattg attcagtagg tagctagcta ggggagtcac 60

aatggatcct aggaagttcc gtccgtccag tagccacgac acgacggtga cgacgactaa 120

cgcgggcgct cctgtgtgga acgacaacga ggcgctgact gtggggcctc gcggtcccat 180

cctgctggag gactaccacc tgatcgagaa ggtggcgcac ttcgcgcgcg agcgcatccc 240

ggagcgcgtg gtgcacgcgc gcggggcctc cgccaagggc ttcttcgagt gcacccacga 300

cgtgacgtcg ctgacgtgcg ccgacttcct gcgcgcgccc ggcgtgcgga cgcccgtgat 360

cgtgcgcttc tcgacggtga tccacgagcg ggggtccccg gag 403

<210> 35998
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E4

<400> 35998

ctcaagggtc tcatgttcag gcagaacctc actccaacaa tcgtcatcgt ttggtccagc 60

ctcctttcat ctatcttctg cttgctataa atgaaaatcg atcctttcat ctccccgaca 120

cagaaagctg ccgccttggg gcaatgtggt gtgaactgct gatccagatt gtgactctta 180

tctgaagagg ctcagccaaa gatctgcccc ctcgtgtaaa tacctgaggg ggctagatgg 240

gaatttttg ctgtatatta ggacccatct acaaccttt 279

<210> 35999
<211> 324
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-C1

<400> 35999

ctcctcagca actnccatac cccaggctct tttttacctg agcgagccna ccaaccnntt 60

tnccttttctt atcctcctcc ttcaatataa attactccna tgtatccaat catatccatc 120

atatttttct tttcatcctc cattattcct actattaatt ccaactaaat ctccctctcc 180

ccctatgaag aattcaacat ttataatttg caccttttt aatcttataa aaaaaatatc 240

aagcaatagt attaacgcaa agataatcat gtttaaatac acaagaaaat ttattactct 300

atacaattta attcttctcc catc 324

<210> 36000
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H10

<400> 36000

cggacgcgtg ggcacgccac caccgagtac ttcatcttcc ctctcaggta cgagttccca 60

ggtttcgagg gctcggcgcc gccgctgttt tgccctttc cacgccgtcg ctgctgcagc 120

aggtactccc agagctcttc atctccattt ccacggctca ggtaatccat ggattccatt 180

tccacgctgg cctctattgc ttcgttctcc tccacagaaa ggatgcaccg ccagaaatgg 240

agtcccccca gaactggatg accaagctct tgattggccc tcgccggaaa tggagtcccc 300

ccaggcgcaa ccaaccttat ccctctcaac gagatagttg tcgacatcaa tggaacat 358

<210> 36001
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H11

<400> 36001

gcgtccgttt gttttccttt cctttctact actaatttaa aataattttg ttgtcaccaa 60

ccaatcgggc gcggcggcta accaatcctg ccccttccca ggcactctca ccgtcccttc 120

gccttattca ttggcctggg cccgtccctc ccacccactt acaggtgggc cctaatcgtg 180

gaatcggcat ctccagctgg tcgacctgca gcatattcac acatccgaca cacccacttt 240

gtttgcccgt tgccgatccg ttccgtttca gttgcccgtg tgagcgaggg gaacggtacg 300

ccgccggcgc cgctgctgcg acgcgtgctc gcgccgccac ccgacgacga cctggtccga 360

cttcgcgttc gcgccgtcgc ggcagcccgc ttcatcggcg ctggaagccc acca 414

<210> 36002
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H12

<400> 36002

gttgttatgc tggttggtaa caaatctgat ttccgccatc ttgtagcagt tcaaactgat 60

gaaggaaaag cattcgcaga gagggagtca ttgtatttca tggagacctc tgcactcgag 120

tcgactaacg ttgaaaatgc attcgcagag gtcttaactc agatctaccg tattgtgagc 180

aagagagcag ttgaagcagg cgaagatgca gcatctgggc ctggcaaggg cgagaagatt 240

aacataaagg atgatgtttc ggcggtgaag aagggtggct gctgctctag ctgagctgcc 300

ctgctgtatt ttttgaagtt gtggtgatgt agcttatg 338

<210> 36003
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H2

<400> 36003

ggccgaccca cgcgttcgcg tatctccagc gacggtagcg ggcgaggttt acgcgtttgc 60

gaagcttagt agtggatgcg ggaggcggca gccatggcct tgatggagaa gctcaagatc 120

tttgtcgtta aggagccctt agtcgcggcc tcctgcctca tcgctggatt cggtctcttt 180

cttgcatgag ttgtgcggcc aatcctggaa gcatggtaga ccgtgtaaca agtttcttct 240

tctcttctaa atgatgtggg tgcatgtgtc accggcgaga aaaagtagtg aacttgcatt 300

gttttctcat gccaatggtg ccccacattt tcttccccgt ggtttttctg gc 352

<210> 36004
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H3

<400> 36004

tcgcccacgc gttcggagcg gtgcacagca cttttcaacc catatggcga ttaaagcatg 60

gaagggcaga gcacctttgc gcagaacggg cagcagccca tgaggagcct ctcgtatggc 120

cctcatgctt ccccgtatcg gcagtcgcct atgcttgaca gctagctgca tagagtcatt 180

gtgcttgtct gtcagccata acatattttc aagactgaag tttggaccat aactggagta 240

tgaactcatc catccaacaa gcatctgagc tatctattat tgtggatgaa gcagcaacat 300

tgattcgaat ttgcatatca tctgcgagtg aatttttttc tctcttgtta ttgcttacat 360

tttagctgga ct 372

<210> 36005
<211> 124
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H6

<400> 36005

cgagggcgag aagattgcgt ccattctgcc gttcgatgac gagacggaga tgcaggacgc 60

cgtgtatgct gtcataaggt agctggacgc caaccagctc gccgaggcgg acgagttcga 120

ggac 124

<210> 36006
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H8

<400> 36006

cccacgcgtc cgcggacgcg tgggcgcctt ttgatcgctc ttggtgcatc tgaaggcctg 60

ggttaccttc accatgactg cagcccacga ataattcacc gggacgtaaa atcaaagaat 120

atactcctcg acaaagatta ggaagcccat cttacagact atagcatcgc taagagctta 180

tgtgagtcga agactttcac gtctacctac gtcgtgtgca ctattggtta cattgatccc 240

gaatacgccc gcaccttccg gcttaacgag aagtctgatg tctacagcta cggcatcgtt 300

ctgctggagc tgctgaccgg gaaga 325

<210> 36007

<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H9

<400> 36007

cgtgcgcgga cgcgtgggtg aacatcaagg gtctgctcta cctgacttgt cagactgttg 60

ctgacaggat caatggcgag acaccagaag agattcgcaa gaccttcaat atcaagaatg 120

acttcacccc tgaggaggaa gaggagatcc gcagggagaa ccagtgggcc ttcgagtaag 180

gaggtgctgg atctattgat gcctaagttt ggtggtgtct actactatgt ctactttatg 240

ttgtcctaat ggttgtaagt attttgggag tcactttgct tgcgaatgtc tcgcgtaaga 300

cttatgtggt caatggtcgg ttattaactt attaccatga aagcacttcg tctgctgccc 360

taagaggttt agtcccattt gcatta 386

<210> 36008
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-A5

<400> 36008

cccacgcgtc cgcccacgcg tccgcctttc tttacgagta tccaagtcca accagggaga 60

ggggaggcgc tgcacgcagg tcacgcggcg atggacatat gcgatgtttg agcaggcggt 120

ggcagatttc tgctggcatg cgagggaagt agtgtcgtca gggatggggc tctggggttg 180

gccgtggggg cgacgtgggc cgtcgggctt cggctccgcg tccaccgccg aggaggtcac 240

cgccggcgtc gacgcaagca acatcactgc catcgtcaca ggagcgacga atggcattgg 300

aaaagagaca gccagagttc tagcactgag gggagccaag gtaatcatac cagctaggac 360

actg 364

<210> 36009
<211> 103
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-A6

<400> 36009

cccacccact cgtcctccca ctcttcctcc cactcgtccg ttaaataata taaaaaaaaa 60

aaaaaaaaaa aaaaaagaag tttttaaaaa aaaaggggggc ccc 103

<210> 36010
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-A9

<400> 36010

ctaggaatga acctttagaa tgttgttcct cacatgctgg gttcatgcaa aaagggaagt 60

ntctctaagg atgacagtgt gattcttgat ggcgctggaa acaaaaagtc tattgaagag 120

agggcagacc agattagatc agcagttgag aacagcactt cagattatga caaggaaaag 180

ctccaggaac ggttggcaaa gctctctgga ggtgttgctg ttctgaagat tggaggagcc 240

accgaagcag aagttggtga gaagaaggat agagtgacag atgcactgaa tgctactaaa 300

gctgctgttg aagaaggcat tgtaccacgt ggtggtgttg ctcttctcct atgcattga 359

<210> 36011
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-B10

<400> 36011

aatgacacaa taagggcaaa cattgcctat ggaaaagatg gacaagcaac agaatctgag 60

atcatatctg ctgcagaatt ggcaaatgct cacaagttta tcagttcggc gctgcaggga 120

tatgacacag tggttggaga gcgtggagcc cagttgtcaa gagggcagaa gcagcgagtg 180

gcgatcgccc gtgcaattgt gaaggaccct aggatcctgc ttctggacga agcgactagt 240

gcgctggatg ctgaatccga acggatcgtc caggacgcac tggacagggt gat 293

<210> 36012
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-B4

<400> 36012

cccacgcgtc cgcccactcg tccgctcatg cttccgcgga cgcgtggggg ttagggctga 60

gccattcatc ccacttgccg ctagcanatc tagttaaatt tgtgatattt tcgaacttgt 120

caattgttgg gatgaatgtg agcttgatgt ggaactctgt gggcttttat cagatagcaa 180

agctgtgcat gatacctgca tcatgtcttc tggaggttgt ctttgatcat gtgcattatt 240

cccgggacac aaagctgagc ataatggtcg tgcttatagg agttgcagtc tgcacagtta 300

ctgatgtcag tgtgaatgca agaggtctaa tcgccgctgt tatagctgtt tggagcacag 360

ctttgcaaca ata 373

<210> 36013
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-B5

<400> 36013

gtccattagt gttctcttcc gtggaaagtc tgctgcttct actgtggtgg aattttgtgg 60

cgggcctatg tgctggagca cccgtacaat ttctgcatct gctggcggag gagcttattg 120

taatgggcaa aagattcatg tcagtcagac agacaaggtg gaacaatcac ttctcgtcac 180

aggttttgga tatgaacacg atgatgcctg gacgaccaat atgaatctgt tcaaggaatt 240

tactgacatt agcaggggag tgcgaaggct agggtctgct gctgctgaca tgtcccacat 300

tggacttggt attacagaag cttactggga ataccgactt aagccatggg atat 354

<210> 36014
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-B6

<400> 36014

aacaacttat ggatctttgc gcccaccttt tggaaaacat cgtctgaaga ttgtagaagg 60

gatctctgtg ctgcttacaa gtggaaatga aactgctgaa aaagagctaa aaaaggcgtc 120

agcaataaaa cgccccaatg gtttggtctt tgaagattcc tataacaacc ttttgccccc 180

acatggtggg aatataaatg gtggctggcc ggaggggaaa aaaacctgaa gtggtgagca 240

tgtccttcat gaatgtgata atgtgggtaa aattcttgcc tcaaaaaggt tttcatcctt 300

gtcgactgag tctaatgggc ctactggtcc ctctgaaggg aaaaccccctc caagaattgg 360

aaatggtggt cacatgac 378

<210> 36015
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-B7

<400> 36015

cggacgcgtg ggcggacgcg tgggcggtct cgtgggttca acgccaggga agccaccggg 60

ggcagtaacg ccgacgcgtg cagcagcaag cgcggtgtgg ccgggtcaca gccggcggca 120

agccagacca aggtgagcgc gcagaaggag gaggagatgc tgaagctgtt cgagcagagg 180

aagaaggacc tggagaagct gctggacatc tacgagcagc gcctggagga ggccacgttc 240

ctggccggcg acaacttcac catcgccgac ctgtcgcacc tgccctacgc ggaccacctc 300

gtcttcgacc cgcgctcccg ccgcatgttc gagtcccgca agaacgtcag caggtggtgg 360

cacga 365

<210> 36016
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-B8

<400> 36016

cctgttcctt gttcgaatcc aagtttcttt cccaaaccgc caacccccca ccccaaggga 60

ngaaccctac ccgtgagaag cgccgcccca caaccccgga cgtggtggca agcgaccgat 120

ccggatccat catcccaagc ttcctttctg tctcctcttc atccatctcc acaaggataa 180

tcaaagaaag aaggccatgg ttttgttcga acttgacccg gacatcatcc gatggggtct 240

tcaccatctc ctccccgctc cggctggata ctctcctcat tgtcgcaccc aaaccacccc 300

taccacacct tgtacagctt ttgctcgccc tcctcatcag cccatcggag acatgggtac 360

ctcaag 366

<210> 36017
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H1

<400> 36017

acgcataggt gttctcctcc ccagccgcca gatttgtatc caaccgccga ggaacatgaa 60

cgacggcgcc cttagcatcc tttgtgtgat actgttcttg cactgccagg ccgtgcccgt 120

tcccactggt gatggcgagt atctcaacta gaccttaccg acaacagagt gcgaaagcaa 180

gtgagggtgc gcgcacgtca gaaaagagcc aaggagaaat caaatggccc aaaaaagaac 240

aagaatatat ctgccatcgc cttttgaacc ttgccctacg accaaaacct gacgcctact 300

ctctctgttc atgctctttc t 321

<210> 36018
<211> 83
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-E3

<400> 36018

gaaaaaaaaa aaaaaaaaat taaaaaatat aaaaaataaa aaataaaaaa aggaaaaaag 60

aggaaaaaaa aaaagaggag aag 83

<210> 36019
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-E5

<400> 36019

tttgtcgtga caaaagaagt ttttnctttt gctgatgatt gtaaccctgg ggacaagagg 60

gcgaaagcaa agcgggatgt tggggatgca gaatacaaga gcatgctgtg tgtggagcct 120

gcagatgttg aaaggccgat tactgtgaaa cctgaggatt agtggaaagg aaggcttgtg 180

cttgtagatg ggtcatcgag ttactgtatg gtacagttag attcattgaa tgttcttcag 240

ggttgaaaat cctcactttc tgcatcttgt acagaagttc attgccctta atatttgatg 300

ctgggctggc gtcaacgccg catgttcctt ttgccattcc caccccctat atttttggta 360

ccttttggat ctagaatttg agttataggt t 391

<210> 36020
<211> 110
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-E6

<400> 36020

aaagaaaaaa aaaaaaaaaa aaaaaaaaaa ttaaaaaaga ggaaagaaaa aagagaaaaa 60

gggagaaaaa aaagaaagga caaggaaaag gacgaaaaaa aaaaaggaaa 110

<210> 36021
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-E7

<400> 36021

tcgcggacgc gtgggcggac gcgtgttcgg actcttgggc ggacgcgtgg gcggacgcgt 60

gggggggacgc gtgggcttgg atgaggatat tgccagtcca gctagtggag caagaaagaa 120

acgagcatgc aacactagta ctgcaacaaa gccctatgtt gaagattatg aggggaatgt 180

ggggaacttt gcaatctaat agtgctactg caaaaatggt tctacaggga aaattaagga 240

cagagtccat caagaatgcg atgaatctgg ttaagaaatg tggtgcacca gaaggaagtg 300

ttgagcatta catggctaca aaattgttca tgaaagctga aaactgagat atgttcttta 360

cttttgaatc aaatgaagga aggttatctt ggttaaagag aaattgtcag gactatgggt 420

tgaat 425

<210> 36022
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-E8

<400> 36022

cggacgcgtg ggcttgactg ggctggtggt gctgtacggt cggaacaagc ggctgcagga 60

gctggtgaac ctcgtggtcg tctgcggcga ccatggcaac ccttccaagg acaaggagga 120

gcaggccgag ttcaagaaga tgtttgacct catcgagcag tacaacctga acgggcacat 180

ccgatggatc tccgcccaga tgaaccgcgt cctgaacggc gagctgtacc gctacatctg 240

cgacaccaag ggcgccttcg tgcagcctgc tttctacgag gctttcgggc tgacggtggt 300

tgaggccatg acctgcgggc tgcccacgtt tgccacagcc tacggcggtc cggccgagat 360

catcgtgcac ggcgtgtctg gctaccacat cgacccttac caaggcgac 409

<210> 36023
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-F1

<400> 36023

gccatgcgtc cgcccactcg tccgaaccct attcaggttt ttgattaatc cggtgcatcc 60

atgagtaggg tgcagtctga gtgtggctag gatgccatct cccagattgt tggggaatcc 120

aaggagaaga ataggaagat tactgatatc tgaggaactt tatattgtgc tgaacaatta 180

tgatccacag aagggcaatg cgtgtcagtg gcgtctgatt atttgcccca tattccttcg 240

tccaagatga aagtgtgcat gcttggtgat gcccagcatg ttgaggaggc cgagaagatg 300

ggacttgact acatggatgt tgaggctctc aagaaaatga acaagaacta gaagc 355

<210> 36024
<211> 223
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-F12

<400> 36024

caaaagggtt ttnncaaagc cactatcagg agttcttttc aatgtcctag accgcaaata 60

acagaggagg ttgaggctca tatctcacac ctatcaacaa aattttactt ttcccgtttt 120

atttatttct aattattgcc acccctctat tatggtatat caaatagtag cagttagcaa 180

accttccatt ccaacataat atcttcagaa atattacacc aaa 223

<210> 36025
<211> 145
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-F2

<400> 36025

agcgtacgga gatacagaag atcgtatcac cacctttttt ttcattttga gcantgtgtg 60

tatcagtgag ttttggggag tgacataata tggtgaatgt ggatagagaa aagaaggaaa 120

caattgaaac caatcctagg gaaat 145

<210> 36026
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-F5

<400> 36026

gcgcggacgc gtgggcggac gcgtgttccg gtgtcgatgg ccacggagcc gttggcgcgg 60

ttggggttga tggtgaagcg gtcggtgttg ctgaactcgg tggccagcgt gtgctggacg 120

gggttcacga tcgactccag cgacctcagc gggtagtagg agtggagcac gtggaagcgg 180

agcaccacgg ccttgctgtc gttgatgagc gacttgagcc gtgcccccat cgtgaggccc 240

gcgaaggcgt cgtcggtcgg cgcgaacacc gtgatcccgg ccccgcgctc gtcgtcctcg 300

aactcggccg tcacgcccga cgcctgcagc atggacgccg tcacgttgaa agcgcgcgcg 360

tcggcgagga cgcgggtgat gttcacg 387

<210> 36027

<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-F6

<400> 36027

cggacgcgtg ggcggaccag gttagcagct tcaggaaccc tatcaccgtt cgcatccgca 60

gggatgggta tcgacctcgt tgccggtggg aggaacaaga agaccaagcg cacagcgccg 120

aagtccgacg atgtttatct caagctcctt gtcaagctct accgtttctt ggtcaggagg 180

accaagagca acttcagtgc tgtgattctc aataggctct tcatgagcaa aaccaatcgc 240

ccaccaatct ccatgcgccg ccttgtcaag ttcatggaag gaaaggagaa gaacattgct 300

gtgattgttg gcacagtcac agatgacaag aggatccaag aggttccagc aatgaaagtt 360

actgccctga ggttcaccga gacggcaagg gccaggattg tcaatgctgg tggggga 417

<210> 36028
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-F7

<400> 36028

acgggttatg taggagagga tgtagaatct atattataca agttactcac ggtggcagat 60

tttggtgtgc aagcagcaca gcaagggatg gtgtacatag acgaggttga taagatcaca 120

aaaaaggctg aaagtcttaa catcatcaga gacgtatctg gtgaaggtgt tcagcaggca 180

ttgctgaaaa tgctggaagg cacgatagtc aacgttcctg aaaaaggagc aaggaagcat 240

cctcgtggtg ataatataca gatagatacc aaagatattc tttttatatg tggtggcgct 300

ttcgtggatt tggagaaaac tatatcggag agacggcagg attcttctat tggcttcggc 360

gcaccagttc gtgcaaacat gagggtcggt ggcactttaa gtgctcaagt gacatcgtcc 420

ttggtggaat cg 432

<210> 36029
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G1

<400> 36029

ccattcggtg gaggccccgc aggtaggttg aagagaaaga atcaggagaa ggcatgctgt 60

ggcagtaagg ctggatgatg agttgaggag tgaggatgtg tcatgttggt gtgtgcaccg 120

agtataatgg aattgtctag tgtttttgga ctagttcgaa tgatgagtgc ttagctgtgt 180

gatccgactc agagtcccct gtgctgactc tgggtcatgg atggtccatt ttatcttgtg 240

ggattatcag ccttta 256

<210> 36030
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G10

<400> 36030

cgtccgccca cgcgtccgca gactcatggc gaaggttatt gcgggtttat gcgaagccat 60

tggtgtggtg catatggtgg gaccaagcat gaggcaggaa ctgcattact tgcaagaaag 120

tcacaaaatc cattgcaaga tcatacttgt ggctttcttg caagttgcgc aattgttgcc 180

tcaagcttgc tgcctccctt tgccagagct atcggtaaaa caggaagtac tgtcagtttc 240

cgagctacaa acaagctata agtttagaaa aataatttag aaatgtacaa caaagtctag 300

taatacattg ctaaagataa atcaatactc aataagttcc tcatgctttg gatttgggga 360

taacatacct gttttattta catgctaata tttggaccaa caaaaaatac cttatgaaca 420

gccatttgag 430

<210> 36031
<211> 337
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-G12

<400> 36031

acgccggcgg cacgcgtccg ccactcgtcg cccacgtgtt cgtctttgct aaggacgccg 60

gtttgttatc atagctggtc tagcctgcat ccacctgttg tcaaaatctt tcaacccacc 120

gaaagcaagc atcgcccacg attacattca taggcaaaac tgcccaatcc gccattttgt 180

gagccatata atttcttttt ttataacaag gcgtcagcag gagagcaact atatttatat 240

acatctttcc tgatctgtcc ctgtccggcn acaagaacac caccaataag gatctcatca 300

ctacgagtaa gcggcacgac cgaattattt aactact 337

<210> 36032
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G2

<400> 36032

acgcatcatc tcgcctcccg tggtcgacga gctttcgtcc atgtttaagt ggctgcactc 60

acagttggcc aggaactgct ggaacgctga actcgtccct tttgccccaa tcttcttcgg 120

caaaccacat cctctggcct ctgacaggtc acaagtccca tgggtgccga tgatgaagag 180

cccgccgacg atctgctgag catatagcta tgatatgtca agagcgtaag agcgcaagcg 240

tgcatcggcg tgaactacgg ctaggtggcg ggcaacctgc cgtcgacgga cgagacggca 300

aggctgctca agtcgacgtc catt 324

<210> 36033
<211> 142
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-G3

<400> 36033

tcgaacgggt ctacatcgcg agcggatgcc cttaggtttt tttcttattg ttgcgtaagg 60

gtctgtgtgg gatanagctc ataagcttgg gaccaaatct agcaggagat ccgcctcatg 120

aaactggaac gatggttcat ga 142

<210> 36034
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G6

<400> 36034

aattacgggc cgaccactcg tcggggacat atggccttca aaccatgaga tctttgaggt 60

tgtggaggcc agcaggcaga ctgagctgtt caagaaagtg tacgactcca tcatggaacg 120

taaccctagg tggaaccagc tgccggttcc aaaggaggcg ctgtacccat ggtactacag 180

gtctaccgta ctgcgcaagc ctacagatct ggagggcata gccatgacgc cgtctgtaag 240

cccacccact gggactgagg cctactgcct gctcaacctt ggggacagca tcaccacgga 300

ccacatgtcc tactcgggga agatccccga gggcacacct gcggccaagt atctgctcga 360

gtatggggtg gagcccaaga actttagctc ctatgg 396

<210> 36035
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G8

<400> 36035

cctgtttttt ttttttttt ttttttttt ttttttttt tgatgttttt agtgtttttg 60

ggtaggtttt tatttttttt tggaaaccca acccccccata aatgggtttt tattggctat 120

atatgatcag gggcttttga aagacgaggg tgccatgaat atttttttcta caatataagc 180

tgagttctaa aagagtcaaa tgagatttaa tcagacttaa gtttatgaga tgcgctttcg 240

gtaattagga gccccacagg ggtggggcag ctttaaaatt tttccatgag gcccaaaaac 300

attgtccaat caataacccg agtcatagga tagctcctga aaaagaagtt tggggtcacc 360

atcgaaaagg tatatttttc ccagtttaac aattttgggg gggcttaaa 409

<210> 36036
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G9

<400> 36036

tgcggaagtc gccccctctc ttaaaccctc ttttttcccc tcctttgctc gacccagatc 60

gagggctcga tccgggggggc atggcgctgg agtgggtggt gctgggctac gcggcgggcg 120

cggaggcgat catgctgctg ctgctgacgc tgccggggct cgacggcctg cgccggggca 180

tgatctccgt ggtgcggagc gcgctgaagc ccatgatgtc ggtggtgccc ttctgcctct 240

tcctgctcat ggacatctac tggaagtacg agacgcgccc cacctgcgac gacgagcacg 300

cctgcacccc ctccgagcac cttcgtcacc agaagtccat catgaagtcg cagcggaacg 360

cgctcctcat cgccgccgcg ctgcttctct actggat 397

<210> 36037
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-C2

<400> 36037

tggaccggcc atggccgcac ctttttgcac gtttcgcgcc tggcattact actgagtcta 60

tggatgatca cggttgtgct catgcgtgtg gaggtgccga tcccgtcgtc gttgaaaggc 120

gaggtgctca 130

<210> 36038
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-C3

<400> 36038

cgatgaggag atgaagccat gattgccatt tgtgctcttg ctgccgactg tttctcgttt 60

ggcatccagg gattgcttat tggctattat ttgcacgcaa aggaaaaaaa agatgttatg 120

ttttatatct taggccagac tgctgtatct acttatttgt gactgctgtg tgtgcatgga 180

tttatagtga atctagatta ttgggcttgt gctttgttca tgccgctgct gtctgcccat 240

ttttctattc agacatgaaa ttctttgttg ggagcttgat aagctgcatg ataagaagcc 300

ctttttaagt attgactagt t 321

<210> 36039
<211> 421
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-C6

<400> 36039

cggacgcgtg ggcggacgcg tgggcgcggt tggacatatt ccattcacct accgtccatg 60

ggtcaccaga agcgaaggcg gaggcggagg agcggaggta ggagatctcg agcaagccgg 120

aggcagagga gatgaagacg ttcgacccgt ggccggtctt gttccggcgg gagtggaagc 180

gcaactggcc cttcctcacg ggtttcgcca tcaccggatt catcatcacg aagatgacgg 240

ccaacttcac cgaggaggat ctcaagaact ctaagttcgt ccaggaacac aagaagaagc 300

actgacgaac caggtgaagg agttgtcaga aacgcatgtt tggccagcca gttctgttat 360

gcttttgaat gaaaaattta gacccttctt tctcgtttcc ttaatcgaaa tgcttgcact 420

c 421

<210> 36040
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-C8

<400> 36040

gcgccgacca gaccaatggc actgcggcta cccatctcct cgacccacgg gctggcctcc 60

tcgggagcgc ccatctgctc cacgacgacg tgccggccgg ccgccgccag tgtgagcttg 120

atcccgccag ctgccctgat cgcagttgcc atccgctggg cgtagtcgac agcgtcccaa 180

aagagggtgc tgctgctgac gactgctagg ggctgtggag tcgcgccggt gaggtcgagc 240

gggatcgaga cgacgtcgac ctcggtggga gctgaagccg tcaccgggca ggtcacggag 300

gtcaacaagg acaccttctg gcccatcgtc gaggccgtcg gcgacaaggt cgtcgtcctt 360

gacatgtaca ccgaatggtg cggg 384

<210> 36041
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D1

<400> 36041

acgaccactc atccgcccac gcgtccggaa aatttctaca atatcaacaa tgttcccaat 60

ggccagtatc agggtatact tttattggcg ttactggaca accctaatct tgacagtgag 120

cctattttcg atgtttctgt tgagggttct ctgttcagct attttgtgct gggcatgatc 180

agcgacgatg agaagacatt tgcgagaagc tttaggtttt agtcatgact taagcttatc 240

agtttgctta catagtacag ggcatggtga tccatcgaat ctttctattg aagttctaca 300

aatagatgac gatgcctata acattggtcc accacgggaa aaagggacag tgcttaaagc 360

<210> 36042
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D11

<400> 36042

cgcgtccgcc cacgcgtccg gcattttggg ttgggctgtt gtacgattat gaatcattac 60

aaagcattgg agacatgact tttgactgga gacaggagga aagagagatg ctaagacata 120

aggtaccgtt gactggtctg aagacaccat ttcgcgatgg atatgttaga gatttagccg 180

aggaagttct aaaactggcc aagaatggat tggaaagaag aggatacaag gaggtcggtt 240

tccttagaga ggttgacgaa gtggtgagga caggagtgac acctgccgag agacttctgc 300

atctgtacga gacgaagtgg caacgcaacg tcgaccatgt tttcgagcac ttgctatact 360

gacgttgtag atgtacccta gtacaaaaat ctcatctttg attcattcaa cgccttgagt 420

gggagggcac aggaacacat ctttt 445

<210> 36043
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-D12

<400> 36043

ggcgttcagg gtgttcgaca aggaccagat ttgcttcatt tttgccgcgg agctccgcca 60

ggtgatgacc gacctaggcg agaagctgac cgacgaggag gtcgacnaga tgatccgcga 120

ggccgacgtt gatggcgatg gccagatcaa ctacgaggag ttcgtcaagg tcatgatggc 180

caagtgagta aagcctgcgg taatggtata gtaaccccgc tcggaaggag gaaaccgtgc 240

gttgcatatt agtaaggcaa tgcaatgcag ctcttgtttc cttcttcccg tgaagaaacc 300

gtactagctg tagctgctga acgtttgagt ccctctgctg ccacccttat 350

<210> 36044
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D2

<400> 36044

acggatgatc aagacagagg ccagtcacaa ggttatagca ttaggtggta gcaagatgac 60

ttggctccac gcgacagttg gaatttggat catcgtgacc tccttggtgg ctttcttcat 120

cctagccagc tccatcgtgt gccgtctctg cagtaggcct tgaagagcgt atgcaaagtg 180

cagtcgagca tggacgccaa gaaaggcatg ttaagctgta agtcgggctg caagaaccgg 240

tgatgagagg gacaacccaa gaaggggacg ccagcaacga ggagtgcaac tgggccaagg 300

gaaaggggggt ctacgacaac gtgttcc 327

<210> 36045
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-D3

<400> 36045

ctccccggcc cccaaatcac cgcgcctcct ttgccactcc tcacagggcc ggttgcgtag 60

gagaaagggg aaaggaagga tgggaggcgg tcgtcgggcg agatgagcga ctccttctgc 120

cccgactgca agaagcatac ggaggtggcg ttcgaccact cggcgggtga cattggtgtg 180

caccgagtgc ggtctcgttc tcgaggcgca ctccgtctgc tagaccttcg agtgtcgcac 240

cttcgctaac gagtccaacg acaacgaccc cgttcgtgtc ggtggcccca ccaacccgct 300

cctcaccgat ggcggcctct tcaccgtcat cgccaagccc aacggtgcgc anggcgactt 360

cctatccttc ttc 373

<210> 36046
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D5

<400> 36046

gctatggtac tgaaggagtc cctggttcgg atctagaaca ctactcccac tgtgcccgcc 60

ttagggccag gagacatcgt ggagcacatt ctgcggactt gtttcttgca gctttttcct 120

taggtctttg ttgagatcct gcttctcttg ttccttgctt ttgagatcaa agagctgatc 180

gagtagtgtc tgattctttc ttgacctgat atgcttcagg gatacctgta tctggttctc 240

cagctgctcg agctccttca tgctgagtgg gcccagatct tcgccaagga tgtttctttg 300

tgtagtctgg agaaaatcaa ctctggtcct caacttcaag tagtcttcac tctccagtgg 360

agcttttact tcctgtgtgc tggaattgga gctgcggtat ctctcgagtg ttttgta 417

<210> 36047
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D6

<400> 36047

atgcgcccac gcgtccgcac ggtcacatcc ctcttttgca cgatgccaga cccggacgtc 60

gtgtggggta atacgctgat ctcaggctac tgccagcgcg gcatgttccg gaactcgatg 120

ggccagtcta tggagatgtc tcaccgtggt gttgccctcg acaggacgac tctcgctgtc 180

ctgctcaagg catgctatga cttggacgac actgacactt ggtgtccaga tccatgcgct 240

agcggtgaag acgggcctgg agacggatgt ccgggccggg agcgctctcg tcgacatgta 300

tggcaagtgc aggagcttgg atgacgcgct gcgcttcttt catgggaagg gtgagaggaa 360

ttcgggctcg tggggtgcgg cgatcgct 388

<210> 36048
<211> 420
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D7

<400> 36048

tcgcggacgc gtgggcggac gcgtgttcaa gcttaagcaa caaggcagca gcacaagcaa 60

gaacggcacc ttctcccttc gcctgtgatc atgtcgtctt gctgcggcgg caagtgcggg 120

tgcggctcca gctgctcctg cggcagcgga tgcaacggct gcggtatgta ccctgacgtg 180

gagaccgtcg tcaccagcag cgtcaagacc acggtcctcg ccgcgccgac caccaaggcc 240

agcgccggcg gcttcgaggc ggccaccgag ggcggcggct gcgactgcaa cacctgcaag 300

tgcggcacca gctgcggctg ctcctgctgc agctgcaact gagccggccc ggctcggcga 360

tggcgcacga gagtcgagag gacgacgacg aggaggcgta taataaatat aatagcggcg 420

<210> 36049
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D8

<400> 36049

tcatgcggcc tgcgtggact tttcaagggc aatggttcta attgtgcaag gattgttctc 60

aaattctggg gtgaagtttt ttaggctacg agcaggcgtc aaagggaatt ctgtgggcct 120

accgtcaaca gactggtgaa gaggatgctc atcttactcc gttcttgcac cttgtatctg 180

gagcatgtgc tgctatcata tttatgtctg ctacttaccc gatggatatg gttaggggaa 240

ggatcactgt tcagacagac aaatctccct accagtaccg tggtatgttt catgcactgg 300

gtacagtcta ccgtgaagaa ggctttcgtg ctctatacaa agggtggctt tcatctgtaa 360

tccgagttgg tccatatggt ggtctcaact tcgctggata tgagtccctc aaagacttgc 420

<210> 36050
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-E10

<400> 36050

cgtgcgaatg tgctacttcg agttcctgcc cttgtttcag cccgtgtccg acgacgccga 60

tcccgggcat cncgggctcg tggacctggt ccacgtcaaa ctcgggcacg agtacaagct 120

cgtcgtcacc acctactcag gtgcggagcg ggtgatgaaa atggaacagc tgctagctga 180

tgagtcagtg acactagctt gctagctaac gaacgtacac gcacgctcgc cgtgcaactg 240

taggtctgta ccggtaccgt gtgggcgaca tgctgcgcgt ggccgggttc aagaacc 297

<210> 36051
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-C11

<400> 36051

cgcgtgcggc cacgcgtccg cccattctct cgctcgcttg gagaagcttt cttcgttgct 60

gctgccgggg ccacatagat ggggggtttg gggaagactc ataanaccaa tgcgtatttc 120

aaacgtttcc aagtgaaatt caagagaagg cgggctggca agacagacta cagggccagg 180

ataaggctga ttaaccaaga caaaaacaag tacaacacac ccaaatacag atttgttgtg 240

cgatttacca acaaggacat cactgcccaa atcatatctg ctagtatagc gggtgatatg 300

gttcttgctt ctgcctactc gcatgagttg ccacgatatg gtcttgaagt tggtctgacc 360

aactatgcag ctgtctactg cactggcctt ctgttggctc tccgtgtgct caagaatcgt 420

ggtttggatc 430

<210> 36052
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-E12

<400> 36052

cgtccgccca cgcgtncgcc cacgcgtccg atcccgttgc atcccattcc actaccaccc 60

atctcggggt ccgccgattc gatccgggtc ttccaaccca ggggcagtga tggcgacgaa 120

gaggagcgtg ggcaccctcg gcgaggcgga tctgaagggg aagaaggtgt tcgtgcgcgc 180

cgacctcaac gtcccgctcg acgatgccca gaagatcacc gacgacaccc gcatccgcgc 240

ctccgtcccc accatcaagt tcctcctcga gaagggcgcc aaggtcatcc tcgccagcca 300

cctgggtcgt ccaaaaggtg tcaccccaaa gtacagcttg gagcctcttg tccacgcttg 360

ctgagctctt ggagtgagtc g 381

<210> 36053
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H8

<400> 36053

gcctgggagg ccaccaatgc ggtgttcgat cttggtgcgg gcactggacc cgggtgacgc 60

gtgcaatatc atgggcctgc tgctcatcca ggacaacagc gacaaggagc tcatccgctt 120

cgccttcggc cccgaccacc tcctccacgc cttcgtctcc gccgcgcgcg ccgacctcgt 180

cgccaagccc gcgttcccgc cgtcgaccgt gctgggcccg ctccaccaga cctggggacc 240

gacgtcgcac ccgagcccta ccgccggctc cgaccaccca caccaggccc acttcgacga 300

cgacctcgcg ctcggctacg acttcgacgg cgccggcgcc ggcgctgacg cgttcttccc 360

cgacgactac gactgctggt caccggtcgg cgccgtccac cggcggagct tctcgctcag 420

agacgccgag gccgtcgccg tcaccggaag cgtctcgtgg a 461

<210> 36054
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-H9

<400> 36054

ggccgaccac gcgtncggag cacatccctt ctggttgccg cgatgttgat cgctggggtt 60

cacgtggtcc cctcaggcaa gatggtcctg ctgcacgact ggatgcaccc tcatcacgcc 120

aagatactga tcgctggcgt ggatcaagat tttcctctaa ctcaacgtcc tcttcatcaa 180

cctggagccg ttcacggaac tgatcctatg ctgcaggact tttttctagc catgtgtcga 240

cctccgtgca caatgtctaa tcgtaccttt ccaggcactg cactacatgc atattattgc 300

tgttttgtac ttttgtagta atactctaca atccatgatt attgtccctg tttgttaaaa 360

aaaaaaagat taatcccatt tgcatttttt c 391

<210> 36055
<211> 286
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-A10

<400> 36055

gttggaggaa gccntgggga tantaaggga cactaatggg agatttgacc tggctgtgca 60

acttggtcga cttgaaatag cgaaggtgat tgctactgag gtgcaaagtg aatccaagtg 120

gaagcaatta ggggagttag ctatgtcaaa tggaaagctt gaaatggcag aggagtgtct 180

tctacatgca atggacctca gtggtttgtt gcttttgtat tcttcccttg gggatgccga 240

aggcattaac aaattggcat ctgtagccaa agaacaagga aagaac 286

<210> 36056
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-A12

<400> 36056

cggcctgatt actccgtacc ccctatcctg tcatccactt cagcagtgca agcagcatgt 60

ggcgcgccgt gccagcctgg tgcctcgccg cggcgctgct cgtcgccgtc gctgccgcgg 120

cggtgccgcc gacgtgcgag cgcatcgagt gcccggcgta cgaggtggtg gacagcgcca 180

acgggttcga gatccggcgg tacacggacg ccatgtggat caccacggcg cccatcgagg 240

acatctcctt cgtcgccgcc acgcgcaccg gcttnctcca gctgttcgac tacatccagg 300

gcaagaacgc gtacaacgag acgatcgaaa tgacggcgcc ggtgct 346

<210> 36057
<211> 153
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-A3

<400> 36057

gccgacccac gcatgcgata atctcttctt cacctcacta acaccagtta gcaactctat 60

ctctactgca ataatggggg gtcgcgccta cttctcccag ccgcagctgg tcgcggcggc 120

ggcggtactg gcaggggcgc tgctgctgct ggc 153

<210> 36058
<211> 139
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-A5

<400> 36058

cacaggcgta cgtctaggta gctagcaacg tgtgcgaaaa ggtctacgtt tagcgatgtt 60

gcgcatgaac cacacatggg cccatcctgt ccttagtagc cagatcaacg gacccaacaa 120

tgatagcctt atgaggcac 139

<210> 36059
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-A6

<400> 36059

gcggccaatc acacacgcat ttatattagc ttgtttcgca gcaggacgct gtggatggga 60

tcagggctga cgtgagagcg ggcgagagag agcgagggag aggcctggct agatgcaagg 120

ttgcgacgat ggtggtggcc 140

<210> 36060
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-A7

<400> 36060

cgtcatcatc ggggtgctcg acaccggcgt ttggcccgag agccccagct tcggggacgg 60

ggggcatggc cctgtgcctg cgcggtggcg cgggagctgc gagaccaatg ccaccgactt 120

cccgtcctcg atgtgcaacc gcaagctcat cggcgcccgt gccttgttcc gcggctactc 180

gtcgggggcc ggcgacgggt ctcgagtcgg cgccgaccta atgtcggcga gggaccacga 240

cgggcacggc acgcacaccg cgagtacggc agccggggcc ggtcgtggcg ggcgcaagcc 300

ttctcgggta cgcgccgggc acggtgcggt gcatgggccc cggggcgc 348

<210> 36061
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-A8

<400> 36061

gcgcgcaaga tgaatgacac cgacttctag gatgttctca aggaggcgta cagagtgggc 60

gacaggggcc agaacagctg tatctgtgcg gcggagctcc gccacgtgat gaccaacctc 120

ggcgagaagc tgatccgcga ggatgacgat gagatgatcc gcgaggcctg ctgtgatggc 180

gatgtgcaga tcagcttcga ggagttctgt aaggtcatga gggccaagtg agggaagcct 240

gcggtaacgg tatagtaccc cgcgggaatt ggaggaggaa accataccgt gcatcgcata 300

ttagaaaggc agtgcaggtc ttggttcctt cggcttcccc atgaagaaac cgtactagct 360

gtagctgctg aactgttgga gccccctgct ggcaccctta tcttcattt 409

<210> 36062
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-B10

<400> 36062

tgcgggaaac agagatgtga ccgttgagaa atcttatccc gctgtttccg ctgcttcaga 60

caacggggaa gttagcaaaa acagttgcaa aatatttggc atatctttga ccgagaaggt 120

tccagcaatg aaagaaaagg gctgtggtga catcaacacc aactatccat ccccttcct 180

gtctttgaag caacaagtgc cgaaatcgct gggcaacagc tgtgccaccg ttcatgagca 240

gaggcctgtt gttgctaggg tgattgacgt ttcaacagtg gatatgatga tctgatgtat 300

tggaaaactg tcctggaggc tgtgttgcgt agtgtggaca gtgtcggctt gatggttcgg 360

tatcctgaag acgggatttg attgaggatc t 391

<210> 36063
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-B11

<400> 36063

aaaactttga ggnnnattgt tgttaaagta attccagggg natccggagc tgctggaagg 60

aatgccttca caccancctg agtttataga ctatgttcca tgagtagtct atagaatgat 120

gtctttttaa ttcaaaagaa atctctcttc taggctggtg cttttcgact ataatttgga 180

gattgttccg tgtccgtgca atcatctgaa catgttacta cttattgtac cttgtcgagc 240

aaagttctgc taagatctct attgcttcat gtcttctgaa aaaaaaaaaa gaaacccccc 300

gt 302

<210> 36064
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-B12

<400> 36064

acccacgcgt gcgnggacgc gtgggagagt ccttcttact gcattttctt tctttggttc 60

tttgggtcgg nttgggttgc taggcacttc tgtgctgttg taatatgggc cacggggtct 120

ctcaatagct ttgtcataaa acaattctac ttccccttaa tatagtacat gtgactctga 180

catgttatcg aacaaaaaaa aacattgctc gctctaaatt ttatgagatc tggcatgatt 240

tcaaactatt cttcttttca aaatcctgtt ttctgactgc agtttttaca agattttatg 300

gtcttgccgc ttcatttttc tgactgtttg cattggaccg ataccttctg atggccttgt 360

ccgcctattt tcaagttcgc taccaaagca g 391

<210> 36065
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-B3

<400> 36065

gagagatgga agcttgttga gcttcttgct tttgaagttt aaagatggct aatgtaccag 60

gggatgtagg tcataggtta tgggtttcga actttcaacg gacgcaagtc ttgaagagtg 120

gatttggcta ttgatgctga gattctataa tgtctattgg ccacaccagc ttttacatgc 180

tgcctattta taggtctgat tagtgccctt cgaatagtgt tgttatttag agcttatgaa 240

ttagcctctg cctgtgtatt ttagaaattg gccattccag agtccatttt tgtgaaaata 300

tatttattat catactctgc tactgaacgt ttgtacaatt aatacatggt gtatagactg 360

gtcttgggc 369

<210> 36066
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-B5

<400> 36066

gcaggctctc ctgctccccg cgcgggccgt tccgccgacg ccggcgatgc ttcggcagcg 60

ggcggtttct gcctgcgcgt gtgcgtcgca ggtctgccgc cccctattcg gtgccgccag 120

ttgcatctcc t 131

<210> 36067
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-B6

<400> 36067

gggttggctt ctcctccccc tcttgttcgt tttcggggac gtgaggttct acggggttcg 60

gggtcgtggg ttagcggatc gagatggcgg cgtcggatgt tgagta 106

<210> 36068
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-B7

<400> 36068

cccacgcgtc cggctcgatc catctcactt tccgctggtc gctcactctt gcagctccac 60

gcttcactca gtcttagtct cttattagct ctaggctcta gctagccgcg ccactccttc 120

gtgtagccat cagccttctc atcgccacca atggccactg ccgaggtcca gaccccgacc 180

gtcgtggcgg ccgaggaagc gcccgtggtg gagaccccgc cgccggccgt cgtgcccgag 240

gagtctgccc ccgccgaggc cgaggccgag gccgaggctg ctgctcctgc tgatcccgag 300

gagcttcccg cggccgagca gcaggcagcc gccgaggcgg aggccgcggc tcctgctggt 360

gccgaagagc ccgtcgcggc cgaaccggcc ggcga 395

<210> 36069
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-B8

<400> 36069

gcgggcacat ctcccagagc tgttccgtgc tctgtccgac tgatccgacg cctactggga 60

aatggactcg aagctgaggc tgatgtcgtt gatgcaggat cagggaaaca actagatgga 120

cagtatgttc agaagttagg atcagtgata ttcctacccc aagtgttgta atgcatgtgt 180

tctacccgtt tctggggtat ggtaaaaggc tagtagctca ttggatgagg atgcttgttt 240

aatttattgg cttgatgaaa ccatcgggta cttgtagtgt ggacatatgc tggatagtta 300

gcatgtgatg aactgattac aatctgtggg ggtaaaagcc ggcgtctatg taaatgataa 360

atttt 365

<210> 36070
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H6

<400> 36070

cccacgcgtc cgaatggcag aattcctaat cgtgaggttg gcgaaaagag aaaagaactg 60

gagcatcccg tggagagaag gcggcggcag cgcctgtggg agatgtcaat cctgtgggag 120

aagagcgcgg gttggcgatg gctggttcgg cggacgcgtg actcgaagcc cttcttttc 180

acgttcgcgg cgctgtgcgg cgtcgtcccc ggcgtaatcg gctacggcgt gatgcagctc 240

accggctccc gcaacgagca gctcgaggcc caccttcgct ccacggcccg tcccgagacc 300

acgatgatgg ggcaagtgaa cagggagagg ctggcggagt ttctcggcga gctgcaacgg 360

aaagaggaca cgaacgacag gtacgtggcc gcgctgaggg gggagaccct gaccaggaag 420

cgctacgagc g 431

<210> 36071
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-C10

<400> 36071

cacgcgtncg aaaggagagt atggaagcta ttgtccagct tttgattaat tttgcacaaa 60

acacttctgc ggacgaaaag gttctttctg atggtgggac tgatgttaaa gaccaatgca 120

ccaagtttgg tctcggggat aatgtcaagg tacacaatgt ttgctcacct catcgactcg 180

agccatgtga gggttcagcg tggaggttcg tcgaggcctg ctgctcgtag ctcctgtcgc 240

tccactcaag atccagcaga agtggagcaa ctacgagaag aacttaggcg acatcaagat 300

tccttgaagc aacaagctgc gcaacatgaa tactatgcta cacaaccagg tatgggatat 360

ttgccgccac caccatggag atatcctaca cattcaatgg ggccttgggg acgcccccca 420

tggccaacac aaccacttcc att 443

<210> 36072
<211> 317
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-G11

<400> 36072

ggccgacgcc acgcgtccgc ccacgcttac gcgatgagtt tctctctgtt gcggccgctc 60

tgatcgaggg ggtggccggg gcctgcctcg ccgcgccgcg gggcgcggac nactacgccg 120

aatgcgcgga gacgaccatg gacacggtgg tgatgatgct ggcgctcgac gcgctggacc 180

aggacgacac ctgctgcgcg ccgagcgcgc ttaatgccat gaggtgcacg gcatccttaa 240

gcatattcct actcatggac atgtactgga acgtccaaac acccccaaca agccacgaat 300

aaaaggcttg gacccca 317

<210> 36073
<211> 465
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-G12

<400> 36073

aaannggggcc gacccacgcg nncgcggacg cgtgggcgga cgcttttgga gcgtattctc 60

aggnttgcgc gtatgagact tatcggggaa ctcaattgtg cgagtgacan cangagctct 120

tccaaaaggc cttcacatgt taagcctgtc aaagaataac atatcaacaa ttgaaggcct 180

tagagagttg acacgattgc gcttgttgga tatcagctat aatagaatat ctagaattgg 240

ccatggattg gcctcctgtt cctcgttgaa ggagttatat ctggccggta acaagatcag 300

tgaggtagat ggtcttcacc ggcttctgaa gctcaagatt ctggacttgc gccacaacaa 360

gatttctaca tcaaagggcc tcgggcagct agctgcgaat tacaactctc tagaagccat 420

taaccttgcc ggcaaccctg cacagaagaa tgtaagcgat gagca 465

<210> 36074
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G2

<400> 36074

ctcccatcca gccgccacca ggtgcagagt ttttcgtcat ctcttctccg gcgaagaacg 60

gccagtggcc caccagatca cttgttaaac tttgttgagg ggtgatggcg gtttctttcg 120

caaacctcaa caccgaggca gggcttaaaa agcttgatga gtaccttctc actcgcagct 180

acatcactgg ctaccaagct tccaaggatg acttggctgt ctacacttcg ttttcgtctg 240

ctccctcgtc caagtatatc aacgtagcaa ggtggtttaa tcacattgat gcgctcgtga 300

ggctgagcgg aattactgca gagggccaag gtgtgaaagt tgaatcctca gcagttcctt 360

cagccccaac tccagatgtt gctgaagcac aggccccagc tgctgaggag gaagacgatg 420

atgatgttga ccttttttggt gaggagaccg aagatgagaa g 461

<210> 36075
<211> 518
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-G4

<400> 36075

gaattatccg ggctcgaccc acgtcgtccg cagtcgatca gcccgccgta ttggagcagc 60

gagttatngg agtcttgcga tggcggagaa agaagcnagc ggcccaggta gggtcccagg 120

aaggggacga gtgtggttac cccgcgtagt acanctcatc aacctccaca tagcgcctcc 180

acgngatgca nccttcaaga tagaaaggcc cccaatggct atcaanggaa atcagggaag 240

tttgcacaga aggcaatggg caccactgac atcaggattg atgtgaaact caacaagcac 300

atctggagca gtggtatccg gagtgtgccg aggcgtgtcc gtgtcaggat cgcacgcaag 360

aggaacgatg aggaagacgc caaggaagag ctttactctc ttgttaccgt tgctgagatc 420

cccccagaag gcctgaaagg tctgggtacc aaggttgtgg aagacgacga gtagatctgc 480

ctgggtactg atctgtgtca actgtcaaat catttttt 518

<210> 36076
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G5

<400> 36076

cccacgcgtc cgtccacgcg tccggttttg ttgatcctgg tccacatgga gcaggtagat 60

gttctgacca tatgttacct gaaattgtga agaaagattg gagaaagggt gcacagtggt 120

ttacagtgaa acggcagcat gcagttctta ttcttgctga cacccttac tatgggaagt 180

tcaagcgtta ctgtaagcca ggaaatgagt ggcataactg ctattcagat gagcactact 240

tgccaactct cttcaatatg gctgacccga ctggaattgc aaactggtca gtgacgcacg 300

tagattggtc cgaagggaaa tggcatccca aagtctacag ggctgtggat acgagcttcg 360

agctgctcaa gaacatctcg tccattgatg agagcgtcca tgtcagcagc aacgcgaagc 420

atgtagcgca gaggaggccg tgcgtgtgga 450

<210> 36077
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G6

<400> 36077

ccaacctgag cacaccatcg agtgttcgtt ttggagcagc catggctaca taggggtcg 60

gctgagctag cacatgcctt ggcacccgaa tatcggaccc tgcgacactg tacgcacacc 120

tagtgaacgg gttccggttt gacatgtgcg gtaaggccaa aactgctatg aagaacgtgg 180

ccacgacata ctgctcctct gaacgatcga cgtgagtcac ctgagccgtg gagcccgact 240

acctggacgg atgcctgatc tgataatacg gattagacac gtacaggctc acgaagcctg 300

tcgagaacat cgagttagag ttggactcgc tggactaaag cctgtgcacg aatgagggct 360

caagtata 368

<210> 36078
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G7

<400> 36078

gccaccacca gcagtccctc acgtttagcg ttataatatc caccggcgac ggggagcgca 60

ggcggcgcgg ccggggattc gaagcgatgg cgttcacgat gcgggcagtg aaggtgcctc 120

cgaactcggc ctcgctggag gaggcccggc accgggtctt cgatttcttc aagcaggcat 180

gccgctctat ccccaccgtc atggagatct acaacctcga cgacgttgtc acgccctctc 240

agctccgctc gaccatcgct aaggagatcc gtaaaaacca gaacgtcacc aaccccaagg 300

tggttgatat gcttctgttc aacgcgacgg aagagctgaa caacatagtc taacatgcag 360

agcatcgcca tcatgtgatt gggcagtatg tgatcggcca agagggcctg gtgcatgaac 420

tgtggtcgaa ggatctaggg aactc 445

<210> 36079
<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G8

<400> 36079

cccacgcgtc cgcccactcg tcttcctctt ttctctgcct cgccgcgccg cagggcagag 60

catggcgccc ccacgccctc tcctcgccgc cgtcttcctc gccgcggcgg ttctgctcct 120

cctttctccg gcagaggcgg agacggtggg cgtgaactac ggccgcgtgg cgaacaacct 180

gcccaaccca gctgcggttg tgcagctgct caagcatcag ggcgctgcgc aggtt 235

<210> 36080
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H10

<400> 36080

gacgaataat ctcttcttca tctcactaac ttcagctagc aactctttct gggctgcaat 60

gagggccgct cgctcctcct cgtcccagcc gcagctggtc gcggcggcgg cggtcctggc 120

agcggcgctg ctgctgctgg cggcgggggc cgggacggcg tcggcggcgg tgagctgcgg 180

cgaggtgacg tcgtcggtgg cgccgtgcct cgggtacgcg atgggcagcg cggcgtcgcc 240

ctccgcggcg tgctgcagcg gggtgcgctc gctcaacagc cgcgcgtcgt cggcggcgga 300

ccggcaggcc acctgcaact gcctcaagag catgacgggc cggctcggcg gcggcgtcag 360

catggccaac gccgtcaaca tccccgggaa gtgcggcgtc 400

<210> 36081
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-H11

<400> 36081

caggatggca acaacatttt tgcgatgttc gattgctaca ccccanccgg cgagccaagc 60

cccaccaaca agaggtacaa cgcccccaat atcttcagca gccctgaagt cgccgccgag 120

gagcccgggt atggtattga gcaggagtac accctcctcc agaaggacac caactggccc 180

cttgggtggc ccatcggtgg cttacccggc cctcagggtc cttactactg tggaatcggc 240

gccgaaaagt cgttcggccg cgacatcgtg gacgcccact acaaggcctg cttgtatgcg 300

ggcatcaaca tcagtggcat caacggggag gtgatgccag ggcagtggga gttccaagcc 360

gggccttccg tgggtatatc ttcaggcgac caggtctggg tcgctcgcta cattcttgag 420

aggatca 427

<210> 36082
<211> 276
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-H12

<400> 36082

ggccgaccac gcgtncgnta tcttctggtt gctgttatcg actactatga gttctacgaa 60

gatgcggacg gtaccggtgg caacaagatg gtagagagca cgcagctgtt cgagagcatc 120

accctccatc cgacattcga gcaagcagac ttccttctgc tcctcaccaa gttcgatctc 180

ctagagcaga agatcagcag ttccccgctg acctcgtgcg actggttcag cgacttcact 240

cccctgatca gccgcaacct cctcaacggc ggcagc 276

<210> 36083
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H3

<400> 36083

gaaagccgtc cgtgcagctg gtgagcctct tttcgattat tggagctgtc tcaagtccac 60

ggttcggact tttgaggcgc aatgtgggtc gttggcgcag tatgggatga agcacatgcg 120

gtccttcgca aacatctgca acgctggcat ccttcctgaa gcagtgtcca aggtcgctgc 180

tcaggcttgc accagcattc cttccaaccc ctggagttct atccacaagg gttttagcgc 240

ctaagaatca taaggtgagg cgaaatattt cagccgctcc accgcaacga actggtttac 300

attaccagtc ctcaggggg tcctagttct tgaaccataa gtgaagcaga cttataccac 360

tattatagct gttccaccgt cgttccagat tacatagcta tgcccaattt gcggtgtaca 420

tatatagtcg gaaagttatt tggcaattgt attg 454

<210> 36084
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H4

<400> 36084

cagaggcgat ggctcccttg catattactt ttccaattta tatctgacca atctatttag 60

gctacgtgga cttactctcg aggaaacatg tatccacaac aagcaagtca aaaacccatc 120

actggcacta ccgatgaaca gcaattgtct caagctacct ttaccctaaa tttagctatg 180

acctgaacgt ccacatggtt tacactatct acacacttac tactgataat atgataaggt 240

tgatacttac acatctaaca agaatagcat ctgtgaagaa atcgatcttt gtgaagattt 300

<210> 36085
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H5

<400> 36085

cccacgcgtc cggcagccaa caactttgcc tttggtcact acaccattgg caaggagatt 60

gttgacctgt gccttgatcg catcaggaag cttgccgaca actgcactgg tctccagggc 120

ttcctcgtct tcaacgctgt tggtggagga acgggctctg gccttggttc cctcctccta 180

gagcgcctgt ctgttgacta cggcaagaaa tccaagcttg ggttcactgt gtacccttcc 240

ccccaagttt ctacttcggt agttgagcca tacaacagtg tactgtccac ccactccctc 300

ctcgagcaca ctgatgtggc tatactgctg gacaatgagg ccatctacga catctgccgc 360

cgatcccttg acattgagcg cccaacctac accaacctca acaggcttgt gtcccaggtc 420

atctca 426

<210> 36086
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G10

<400> 36086

cggacgcgtg ggcggacgct ttggtttagt tttgtgtaat ggatttctgc agcatcaaga 60

gtgatactgg caactccatt gataagactg catgctcaaa taaagcttgg accatgaagt 120

gagatcaagc tcatggacaa gtagcgatca tcttttatcc aatcttagtg tattcccaat 180

agagcacacg tgaagaaaat attttgtttg actactgtaa atgtttaagg caatgaaaat 240

tacaaatatg aaatagttgt ggt 263

<210> 36087
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-E4

<400> 36087

cggacgcgtg ggcagcatgg aagcatggct tatgtcctac atttaattac cttttatctt 60

gcactttggg gtgccatttt gtacaatggg tttacatact atgaagtaaa ccgcatgctg 120

aataatgcaa cgcagatggc tgctggcata agtgatcgat caaatcagtc tgacatgagg 180

gcagacagga aggcatttaa ccgatggggt tattaccctc taattctaat cggttcatgg 240

gcttttgcaa ctatcaatcg tctttatgac tttgccaatc cagggcacag gatagtctgg 300

ctctcctttc ttgatgttgg gttcgctgga cttatgggcc tattcaattc cattgcttat 360

gggctaaact cttttgtgcg ccgagctatt gcagagagaa tcgacacgtt cctacctgag 420

agaataaaaa ggagcctccc tgctttgtc 449

<210> 36088
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-E6

<400> 36088

ccatggatga aattaatgaa cagactgaat ttatgaaaca aattcaggat gctttgtcag 60

gtcctctcgg agcttctgct gatttcgatg aggatgaact ggaagccgaa cttgaagaac 120

tggagggagc agagttggaa tctcagcttc tggagcctgt tgcagctcct ccggtgcatc 180

cagtgcatgc cccagccaac aagcaaccag cgcgccctgc tccacagaaa gctacagctg 240

aagatgatga gcttgctgca ctgcaagctg aaatggcatt gtgatcaggt ttccaattaa 300

gaggtggaat gtgtatatga atggcgttat gctaccaaga tgaaagttga gtcaggattt 360

attatatttg ccatgtgtat aatcttgggg gatatttggc aagcagaaaa aagctgctcc 420

aggcagtgtt tgtttcagtg antttgggct ct 452

<210> 36089
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-E7

<400> 36089

tggagagcga gaacgtggtc tcggttaaga tcagcaaccg gctgcatgac acccggtgcg 60

gggtggtcac ctccaagtac gggtggagcg ccaacatgga gaagatcatg caggcgcaga 120

ccctgtcgga ctcgagcaag caggcgtaca tgcgcggcaa gagggtgctc gagatcaacc 180

ccaggcaccc catcatcaag gagctccgcg acaaggtcgc ccaggacaac gagagcgagg 240

agctgaagca cacggcgagg ctggtgtacc agacggccct gatggagagc gggttcaacc 300

tgcccgaccc caaggagttc gcgtccagca tctacaagtc ggtgcagatg ggcctggacc 360

tgagccccga cgcgaccgtg gaggaggacg acgaggcaga ggagcagccg gaggtggagg 420

agaaggatcc ggaaccggag c 441

<210> 36090
<211> 320
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-E9

<400> 36090

ggagaaacag gggcgaccca cgcgttcgcc cattttncgc ngacctgttg tccgacgttt 60

aatcatctca atacattcga gacatggggc tggtctggac ccaactagca ccacataaca 120

ccacacacaa tgcaccgtag tgtgcgctga atacaccatc tcccaaccga aattggacag 180

agtgagccca ggacgggcaa aaactctcct actgttgatt gcaaagaaca ggacacaagg 240

aggtccggtg acctagcaga ggggggacga ctgcggagga cccgagcctc acctacccaa 300

agaccagtgc atctgtacca 320

<210> 36091
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F2

<400> 36091

aaaaaaaaaa aaaaaacata aaaaaaaaat ttttaaatta aaaaaaaaaa aaaaaaaaaa 60

agaaaaaaag aaaaaaaaaa aaaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaagg ggcgcccttt taaaaaatcc aaaatttact 180

aacccgtaaa tgcaagttaa aaacttttt aaagggcccc taaaaataaa taaattgccc 240

aatttttaaa aaatacaaaa ttggaaaaac cttggggttc ccaaaataaa tcgctttgaa 300

aaaaatcccc ttttgacaac ttgggt 326

<210> 36092
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F3

<400> 36092

cccacgcgtc cgcccacgcg tccgcgttct tattcgctgt tgaagatgtc ttctccatca 60

gcggtcgtgg tacagttgcc actggccgta tcgagcgtgg caccgtcaag attggtgaca 120

cagttgatat cgttggaatc cgggacaccc ggaactgcac cgtgactggc gttgagatgt 180

tccagaagac catggacgat gccatggctg gagacaatgt cggactgctg ctccgtggta 240

tgcagaagga tgacattgag agaggcatgg tgctggcaaa gcccggctct atcacaccgc 300

acaccaagtt tgaagcttgt gtgtatgt 328

<210> 36093
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-F5

<400> 36093

ctcggccacg acctctgggt gcacctcttc tccaccagcg aggctgtggt cagcgccttg 60

ggctccatga cgccgatgct catcggctcc gtcgtgctgg actccacgca gggggtactc 120

tgcggcgtcg ccaggggctg caggtggcag cacctggcgg cgtggaccaa cctggtggcc 180

ttctatgtca tcggcttgcc gctcgccatc cttttcggat tcacgctcgc cttccaaacc 240

aaggggctgt ggatggggca gatatgcagc ctcctctgcc agaactacgt cctcttttt 300

atcaccctgt gaaccaactg gcaggagtta gacctgacca tgttcaacaa ggacaacgat 360

tttgtgtgct aggaatctag aaagagtttt tattntcttt tttgccatgt gctgttgctg 420

aaacattgaa ccatcagcat caggctt 447

<210> 36094
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F6

<400> 36094

cggacgcgtg gggttccagg tattagcagt ttaccggttc ctcggagcac gatgaagttg 60

gttgctgcct acctgcttgc tgtcctcgct gggaacgcca gcccctccgc tgacgatttg 120

actgccattc tggagtcagt tggctgtgaa gttgacaatg aaaagatgga actcctgctg 180

tcccaactga gcggtaagga catcaccgag ctcattgccg cgggcaggga gaagtttgct 240

tcagtcccat gtggtggcgg cggtgtcgct gttgcggcag ctgcacctgc tgctggcgga 300

gctgcttctg cagctgaggc aaagaaagaa gagaaggtgg aagagaagga agaaagcgat 360

gatgatatgg gcttcagcct cttcgactag gctgcacagt catcacagta ttgttttggg 420

cagtgaaacc agaggaaaac cagagtcatg tttag 455

<210> 36095
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F7

<400> 36095

gatccacagg cattcctgtg aagaatttgt ttctgtcctc aaagggaagg gtacgctctt 60

gatgggatca agctcactaa agtacccagg gcagccacag gaaattcctt tctttcagaa 120

taccacattt tcaatccctg taaacgatcc acaccaggtt tggaattctg acgagcacga 180

agatttgcaa gctcttgtga tcatttcgag accacctgct aagatatttt tatatgatga 240

ttggagcatg cctcatacag ccgcggtact gaaattcccc ttcgtatggg atgaagactg 300

cttcgaagca gcaaaagacg aactctaggt cacaagtgtt ttctgcaatg tatctgcttc 360

atccatgatc ctgctggact actaaaattc acatgcacta gtcgtaataa agccagtgcg 420

ctattcatgt ataattctg 439

<210> 36096
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F8

<400> 36096

gtacaccaag cccaagaaga tcatacacat tcacaagaag gttaagctct ccgtgctgca 60

gttctataag gtggacgaca cgactagcaa ggtgacccgc ctccgcaagg agtgccccaa 120

cacagagtgc ggcgcgggcg tcttcatggc caaccacttc gaccgccact actgcggcaa 180

gtgcggactc acctatgtct acaaccagaa ggcgtaattg cttgccccga tttgctttat 240

ccgcctaccc tatcgaacat ccagctgttg gttactcgaa ttgtatctca tgtagatctg 300

gctgaggttg aaacttaaat ggaacagtag tatatgtcat attggaaccc gt 352

<210> 36097
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F9

<400> 36097

aaaggggcga gcacgcgttc gtgaggttac tgaccatttt gctatggctt atgcaggcgc 60

gccaaggggg acgaccggcg gaggggtgac tgtcgggcta tcactcctct gcgctggggc 120

cggcccgggc gccgcgcaaa aatgcggatg gcagccaaac gtatgctgca gcaagattgg 180

ctactgcggc acgaccgaca agaactgcgg ggacaggtgc cagaccggcc cgtgccgctc 240

gggcggcggc ggcagcaacg gcggccgcgg tgcgaacgtg gctagcagtc gacaccggct 300

ccttcttcaa cggcatcaag agccacgccg ggagcggctg cgagggcaag aacatctaca 360

cccggagcgc gttgctgagc gccgtcaagg cgaacccagg cttcgcccat ggcgggtcgc 420

aagtgcatgg caagcgcgag 440

<210> 36098
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-G1

<400> 36098

cagaaggaga agctcgccgg ttcctataac ttgtngtttg ttaaactact acacctcacg 60

gggctccgaa aacatcgata tctgaccaaa ctactcacct gtgctcaaca ctgacgacgc 120

ctacgccagt caagaagtta acgggcctga cgggaagccc attggtcctc ctatgggaaa 180

tccatggatc tacatgtacc ctgagggctt gaaggatctc cttatgatca tgaagaacaa 240

atacggaaac ccacctatct acatcacgga gaacggaatc ggggatgttg ataccaagga 300

gacacctcta cccatggagg atgccttaaa tgactacaaa aggctagatt acatccagcg 360

ccacatcgct actcttaagg aatcaataga cttgggatca aatgtgcaag gctacttcgc 420

ttggtctctg ctggacaact ttgaatggtt c 451

<210> 36099
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-E3

<400> 36099

cccacgcgtc cgcgcgttct ccgtctccgt ttccgtctcc gtccgcccgg cgtaaagaaa 60

gccctcggtc accacagccg gcacgccatg gccgaggaga ccgacaccag gcctgcctcc 120

gcgggctccc gaggccgccc cgcgcccgag gacgacgaca gggaggaggg cgagatcacc 180

gacctcgcct gcgctccttc cccgcccgcc acgcacccgc tcgagcactc ctggaccttc 240

tggttcgaca acccgcagag caagtccaag caggccgcct gggggagctc catccggccc 300

atacacacct tcttcaccgt cgaggaattc tgggggcttt acaataacat taatcaccct 360

agcaaattga tcgtgggagc tgatttccat tgcttcaaga acaagatcga gccaaaatgg 420

gaagacccta tttgtgcgaa t 441

<210> 36100
<211> 92
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-C9

<400> 36100

ccggntggaa aaccggccga cccagcgccg actagtaaaa gcaggatggt caataaaatt 60

ttaaaaaaaa aaaaaaaggg aaaaaaggga ag 92

<210> 36101
<211> 292
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-D10

<400> 36101

cggacgcttg gggaaatgtg ttctcatacc ttattgatta gagatattgc ggcctttatt 60

aatctgatct gtttggagct ccgttanctc acccccaaac tttatttaga gaaggtgtta 120

tgtcttttgt caagattata acatttctga acaattgtgc tacacacgac gtggcaccat 180

tctcatcatg tatcctagga tgagttatca ctgttaaata tttcaagtca ttttaatcat 240

gcatctgcac acaatattat agaagcactc tcaaatggtg ggacgctaac tt 292

<210> 36102
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-D12

<400> 36102

ggccgaccca cgcgtncggc cgctattaga agaacccttt ttcaagacta tgccatgtcc 60

gtcttcgggg gacctgggag gcggtggcgc agctccgcaa ggccgggaag gtcaccgtga 120

gggagaccac gctcaagagg ctgggcgcca cgcacttgag gtacggcgtc gcagatggac 180

acttcgaggt gacggggttc gcgctgcttg agacgatcaa ggaggcgctc cccgctgaca 240

tgtggagcct ctagatgaag aaagcctggg ccgaggccta cagccagctg gtggcggcca 300

tcaagcggga gatgaagccc gatgcctagt agtggcgatt gcgaccagtg tttaacccat 360

gacgcagcgc cgtcacagat gtcccgtgtg gtcttgcgct tt 402

<210> 36103
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-D2

<400> 36103

aacccagctc gctcgtccca gctgatcatg ttgagcacct agtagcgacc tgctcgatca 60

gcantgtaga gtgtcggtag gtgtctgtct ctcttggtgg ctggttgcaa cggtcatggc 120

gacgtcgtct cgtcgggtgc ccttgctgct gctgtgcctg ggcgtgctgg tgtcctgctc 180

cttcgcggcg ggcagcttgg accaggagct ggacatcacg tggggcgacg ggcggggcaa 240

ggtccttgac aacgggcggc tgctgacgct gtcgctggac cgcacgtccg gctccgggtt 300

ccagtcccgg cacgagtacc tgttcggcaa gatcgacatg cagctgcggc tggtgccggg 360

caacttcgtc ggcaccgtca ccgtctacta cctgtcgtcg cagggcggcg cgcacgacga 420

gatcgacttc gagttcctgg gcaacgtg 448

<210> 36104
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D3

<400> 36104

cccacgcgtc cgcccactcg tccgcccacg tttccgccaa tctttacccc aggacaatgt 60

gtttatgata tcaaacccaa aggcaaaata ccctgtgctg cagctggacc ttagattgat 120

atcagatctt gttgttgtta tcgtgtctgc tacatgtggt ggaatcgctt ttgcttgcct 180

tgggcaacct gtgattacag gttatctact tgcaggatct ataattgggc ctggaggttt 240

tagctttgtc aatgaaatgg tgcaagttga aacggtagcc cagtttggtg tgatatttct 300

cctgtttgca ttgggacttg agttttctac tgcaaaactt cgagttgttc gtgctggtgc 360

tggtctcgga ggaatgctcc aaattatgct gttcatgttt ctttgtggta ttttggctac 420

actatgtgga ggcaaaacaa aagaaggtgt ttttg 455

<210> 36105
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D4

<400> 36105

ggacgcgtgg gcattcatca aactggctat ttttgataag gagcaggctg cgtgtagtgg 60

tcagagaaga cgagctgctg acatcagtaa ttttgccagt gctgttatta gagttagcag 120

atcacagaca aaactaaaca ctgaaattgt aaaacatctg ggtattatcc atgagtacat 180

ggagacaatg gcttctgttc ataatgcttt tactgatcgt tccaatgctt tgcttcgtgt 240

gcaaaatttg tcagcagatc tatatttctt gcatacccgg gcaggaaaac ttgaatctgt 300

atcagcgaga ggaatggatc aggagagatc aaggtatcaa aagatagaag aattgaaaga 360

aacagtatga gccacggaag atgcaaaaac acgtgcactt aaagaattgg aacttatcaa 420

ggaaaataac atgaatga 438

<210> 36106
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D5

<400> 36106

cccacgcgtc cggtaagttg ttgactgtgc ttcgctgaga accatagagg gcacagtgag 60

tatttgaatt tgatgggagc ctcgaggatt tgcctttgta gagtttgttg atccttacga 120

tgcctctgaa gcccagtatc acatgaatcg ccaagttttc tttggtcggg aaatagctgt 180

tgttcttgct gctgagtcac gaaaaaggcc agaagaaatg cgcagcagaa ctagagtaag 240

aggttactct ggtcatgaag gtcgccggtc ttcttactat ggtcggtctc gttctcgctc 300

tcctcgctat cggggccgtc ctcggtcgag atcatactct cctgctccaa ggcggtggaa 360

tgactactct gcctctccaa ggagacagga agcccatcgc tcatctcctt ccaggcgcct 420

gccaaaggag catgatgaag a 441

<210> 36107
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D6

<400> 36107

gcttgtggga ctgaaaggta ggattgaaat taaaagtgct tacctacagg agctgcaagg 60

gcaatatgta ggtctgcaaa acctgattca acgaaatgag caatcatatg gttcaggaaa 120

cacgccttct ggtggagtgg ctttgccatt tatcttagtt cagacccgac ctcatgctac 180

cgtggaagtt gagatatcag aagatatgca gctggtgcat tttgacttca atagcacccc 240

attcgagctg catgacgact catacgtcct aaaagaaatg cgattctgtg gaagagaaca 300

acatgacagc actcaagagt cgatatcaaa tggaggtgag agctcaagcg tgtcaaatat 360

ttattggcaa cacgtacagc atgtggaaag gccaaacaat ggcacaggta ggttaccgag 420

ctcaccgtct attccaggga tcttgaaag 449

<210> 36108
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D7

<400> 36108

acggtacaat attgaacctc gcgtttcagt ttggtacttc caacagaaga tagagtactg 60

gaaagacaag gtgggagcaa actttgttag ggagaggaga gcaatgaaga gagaatatga 120

gggattcaaa gggagaatca atggcttaat ttgccaaagc caaaaaggtt cttgaaaaag 180

gttgaccatt caagaatgaa ccccccttgcc tggaaacaat ggtcgtgatc attctggaat 240

gattcaagtc tttcttggcc aaagcggaag ccttgactgt gagggaaatg aactgccacg 300

attggtttat gtttctagag agaaacgacc aggctataac catcataaga aagctggtgc 360

tatgaatgca ttggtccgag tctctgctgt actaacaaat gctccatatt tgctaaactt 420

ggatggtgat cactacatca acaacagc 448

<210> 36109
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D8

<400> 36109

gaccgacgcg tgcggtagga cgtcatcgag atctgcgttt acctttttctc caccgtcgac 60

acgtacgtgt ccaagctcaa ttacctaggg tccgggggcg ccatactcga atggatcggc 120

ctgtagggac acttctacaa gcccaacatc ccgatcatga gaaccatact cgacaagctc 180

tccaccctgt gcctgcccat cttgtttacc gaaatcgaca tcatcaaca 229

<210> 36110
<211> 474
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-D9

<400> 36110

ggaaaaaagg gccgacccac gcgtncgccc acgcgttcgc ccacgcgttc gggatgtttc 60

tcgccgaaaa gatcggccag atgacgcggg tcgggaggga agacgccacg gccgacgcgc 120

tggccaaata cttcataggt agcgtgctga gcggcggagg cagcgtgcct gctcctcagg 180

cgtctgctca ggcttgggcc gccatggtga ccgagatgca gaagggcgct ctttctacgc 240

gtctgggtat accgatcatc tacggtatcg atgcagtgca tgggcacaac aacgtctaca 300

aagctactat ttttcctcac aacgtcgggc ttggagctac cagggaccct gacctcgtta 360

agagaattgg agaagcaact gctcttgaag atagagctac tggaattcct tacgcctttg 420

ctccctgtat agcgggttgt agagatccaa gatggggacg ctgctatgag agct 474

<210> 36111
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-E1

<400> 36111

cttacgagga tgtccagaat gtcggtgaac tcgagcctgc gggtggcgga cggnggcttg 60

gcgtgcttcg gcgggccgtt cgaccctaag tcacgctcgc ctaccgtgct caccattgcc 120

ctcgtcgtcc tgggtgtcat ttttctcatt gcctacttca acagcagccc aggtgtaact 180

gttacgagca aagagactgt gaccaggtct gaaggttctt gcacatcaga agttatgcgg 240

gcgcttccat atcttaagaa ggcatatggc aatgccatgc aaaaggttct ccatgtaggc 300

cctgatagtt gtacagtagt ttctaacctg ttgaaagaag gaaaggttga agcatgggga 360

gtggagcctt atgatttgga ggatactgac agtacttgca aaagactcgt gcgcaagggc 420

tttgtccgta tgtctgatat taagttcccc c 451

<210> 36112
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-E10

<400> 36112

cactgttgca ccaaatgctg tacctgagct ttaagatatg tttgcaaaca cagcctcctt 60

ggcttcagag gtagcaccag caaacccatc tgtggttctc caacagccag ttcctactaa 120

tttctcctct caggcacctc aggctgcccc tgcattttct tattcacaag ggcctcatcc 180

tggtgctgcc atccagtctc aatttcgcca gactgtcgcc ccatcatttc ctccttcgca 240

ggtgcctcaa tctgtaacac ccaatctgcc accaggccaa tcgaacttct ttttgcaatc 300

agcatcaggg tctggtattg acagcctgtc tggggttcct acccagaatg gagcaccatc 360

ctacattccc ccacagaatt ctcagttcac tgctccggca aatcaacaac catcgcagcc 420

aagcttcctt ccacaaacta gcac 444

<210> 36113
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-E11

<400> 36113

atccaggaca cggagggcat ttctacggat ttgcagcggc tcatttttgc cggcaagcag 60

ggggaggacg ggcgcacgct ggccgactac aacattcaga aggagagcac cctccacttg 120

gtgctgcgtc tcaggggtgg catgcagatc ttcgagaaga cacttactgg caagacgatc 180

acccttgagg tggagtcctc agacaccatt gacaacgtca aggccaagat ccaggacaag 240

gagggcattc caccggacca gcagcggctg atcttcgccg gcaagcagct ggaggatggt 300

cgcaccttgg ctgactacaa catccagaag gagagcaccc tccacctggt gctccgcctc 360

aggggtggta tgcagatttt tgtgaagaca ttgactggca agaccatcac cttggaggtg 420

gagtcgtctg acaca 435

<210> 36114

<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-E12

<400> 36114

tcacggtgtc caccgtgatc ttgtacaagt ttcagacgga cgcgtcggcg tggggtgccg 60

gcgcggcgtg cggcggcgtg ggggtgctgg gcatcgcctg ggccttcggc ggcatgatct 120

tcgtcctcgt ctactgcacc gccggcatct cgggggggcca catcaacccc gccgtcacct 180

tcggcctctt cctggcgcgc aaggtctccc tggtgcgcgc gctgctctac atcgtggcgc 240

agtgcctcgg cgccatctgc ggcgtcggcc tcgtcaaggc gttccagagc gcctacttcg 300

acaggtacgg cggcggagcc aactcgctcg ccttcggcta ctcccgcggg accggcctcg 360

gcgccgagat catcggcacc ttcgtgctcg tctacaccgt cttctccggc accgacccca 420

agcgcaacgc ccgcgacttc cacg 444

<210> 36115
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C8

<400> 36115

aaggaatgta agcttgtctt ccattacaat ttctgcatac acagtggcag accttcaggg 60

ggcaacgtgc agcttcagtc ctgaaagttt tatcggtgag ggatcggtag gccgtgttta 120

caaagccaaa ttcggtgatc agaaggtcat ggctgtaaag aaaataaact tgtctgtatt 180

tccaagccat ccttcagatt tgttcattga gttggtcgca aacatttcaa tgttaaatca 240

tccaaacctt gctgagctcg ctggttactg cttaaagcat ggacaatgct tgctggcata 300

tgaattctac cgaaacggtt ctcttcatga ttatcttcat ctgaatgatg aacacatgat 360

gccattgtct tggaacagcc gtgtcaagat tgcgctagga tctttgagag cattagag 418

<210> 36116
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B10

<400> 36116

gcgaagaccc acctgccacc ttcgatggac ttcgccggcc gggtatccgt cgggctcttc 60

ggcctggtcg ctggcactgt agcaaacgac cagatcttca ccacttcagg tttgccattt 120

gggcgaagtt cgcgtgagcc aaggtaccgc gtcgagttcc atcctgttga ttcgccattc 180

catccagaga atggtcagga atcggtacca atggctagtc atgaggggaa gcgttataag 240

tgctttctac cagttgaaga aactaaaacc atgaagtcaa tgctcccaca aaatgcgact 300

aatattataa tagaaagtga aaggcgaatt aagccaaagg agccggatga gttacttgag 360

gttctcaagg atcagtgttt ctacaggcac gaaggttggt ggtcgtatga attcttgtat 420

tatgggaaaa tcagac 436

<210> 36117
<211> 68
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B12

<400> 36117

cggacgcgtg ggaaaaaaat taaaaaaaat ttttaaaaaa aaaaaaaaaa aggggaaaaa 60

gagggaag 68

<210> 36118
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B2

<400> 36118

gcacaagcgc actctagcta tggcttctga tgttgtccgc cctagcgacg ccgagctact 60

ggaggcacaa gccgacatat ggcggctcag cctctcctac ctcacgcccc tgtcactgag 120

gtgcgccgtg gagcttggca tccccacggc gatctaccgc catggcgggg ctgcctcagc 180

cgctgagctg gtcacggcgc tgtctctccc ctccactaag ctgccgttcc tccgccgcct 240

gctgcggctc ctcgccgcgt cgggcgtgtt caccgtcgac aagcagagca cggaagaaga 300

gcggtaccgc atcagccccg tgtcctacct cctggtggac ggcatccctc acgaggacca 360

catgaaccac accgctctgg tgctcacctg cacctcgacg cgctacatcg aggcggggat 420

agggctggcg gagtggttca agaggga 447

<210> 36119
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B5

<400> 36119

ggcggttaga ataggtttat aattttatat tatgaaatta tgtgcatctt caggggtttg 60

tgcctcactg ctctgtaagg acatataaaa ttggtatttg tactttctaa ggttctcctt 120

ggaatggtag agttttacag ggaaccttcc atcatcagtt gctgacatag ctcgaactcg 180

acgtttcttc ttcgccagtt gcggctctgg ataaactcga agctgaccta tccaagttcg 240

acgacgggcc cttcttccta ggccaattca gcttggcgga tgtagcgtac attacgattc 300

tggaaagggt tcagatatac tattcccatc ttaggaacta cgacatcgcc gaaggcaggc 360

ccaacctcca ggaattcatc gaggagatga acaagattga agcgtatgcg cagaccaaga 420

acgatcctct gttcttgctt gatcttgcca agaa 454

<210> 36120
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B6

<400> 36120

tcgcggggac caagacaccg tcgtggtttt gattctcgac ggcttcgcga aggcgcgggt 60

gccgtactac ccggtggcgg gccgcatcgt ggacgcgagc cccggggagc ctgtggtgga 120

gtgcaccggg catggcgtct ggttcgtgga ggccgctgct agctgcgcgc tcgccgacgt 180

taactacctc gagcgccctc tgctcatccc caaggaggag ctcctcctgc gccctccgcc 240

cgaggagaag ctcgaggacc tcgtcctcat ggcacaagtg accaagttcg cctgcggcgg 300

gttcgcggtc gggatctgct tcagccacct ggtgttcgac gggcatggtg cggcgcagtt 360

cctcaaggcg gccggcgaga tggcccggag gctgacggcg ccgtcggtcg cgccggtctg 420

ggaccgcgac gcgatcccgg acccgtc 447

<210> 36121
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B7

<400> 36121

catgtatcca agcagatcca gcagatggtg cggttcatct tccagtgttg ccgacgagaa 60

ggccaacgag agctccgtct ccgccgagga ggaattcaac attgagaagt tgcagcttgt 120

tgaagctgag aaaaagaaga tcaggcaaga gtatgaacgc aaagagaagc aggttgaagt 180

acgcaagaaa attgagtact ctatgcagtt gaatgcttct cgcatcaaag ttcttcaagc 240

tcaggatgat ctagttaaca aaatgaaaga cgatgccatg aaggaacttc tccttgtcag 300

ccacaaccac catgaataca agaacctttt gaaagaccta atcattcagg gtttgctccg 360

tttgaaagag ccagcagtat tgctccgttg ccgcaaggat gatcaccatc atgtggaatc 420

agtgctgcat tcagcaaagc atgagtatgc atcaaaagca gatgtcca 468

<210> 36122
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B8

<400> 36122

gagaagggtg atataacgac aaactacttc tttcctatcc atcgtgaagc ccctgctttc 60

gttgagcagg ccactgagca ggaaattctt gttactggaa tcaaggtcgt ggatcttctt 120

gcaccctacc aaagaggtgg aaaaattggt ctcttcggtg gtgcaggagt gggtaaaact 180

gtgctcatta tggagctgat caacaatgtt gctaaggccc atggtggttt ctctgggttt 240

gctggtgttg gagaacgtac ccgtgaaggg aatgacctgt acagagaaat gattgaaagt 300

ggtgtcatta agctaggtga caagcagagt gaaagcaagt gtgctcttgt ctacgggcag 360

atgaatgagc ccccgggtgc tcgtgctcgt gttgggttga ctggtttgac tgttgctgaa 420

catttccgtg atgctgaagg acaagatgt 449

<210> 36123
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B9

<400> 36123

cccacgcgtc cgggcggcgc gtgcggctac tagacggccg tcggaaagaa ggcattcgac 60

gggatgatcg ccggcgggag cacgccactg tacaggggag gcgagggctg cggcgcctgc 120

tacgaggtga aatgcacgac caacgccgcg tgctccggcc agcccgtgac catcgtaatc 180

accgaccagt cccctggcgg gctgttcccc ggcgaggtcg agcactttga catgagcggc 240

accgccatgg gcgccatggc acggcccggc atggccgaca agctccgcgc tggcggcgtg 300

ctcaggatcc tgtacaggag ggtgccgtgc aagtacaccg gcgtcaacat cgcgttcaag 360

gtggatcagg gcgcgaaccc gtactacttc gacgtgctca tcgagttcga ggacgac 417

<210> 36124
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-C1

<400> 36124

gcgcgtaatc tggtacgaac taatgacaaa cagtancgat tgacattgaa gctaccaaga 60

gggcgcacga gtttcatgta ggatgggtcg cggacccgtt cttcttcgga gactacccgg 120

cgacgatgcg ggctcgggtt ggagagaggc tgcccaagtt caccgcagac gatgctgccc 180

ttgtcaaggg ggccctggac ttcatgggca taaaccacta caccactttc tacacgaggc 240

ataacgacac caacatcatc ggacggctgc tgaacgacac tttggcggac accggaacca 300

tcagcctgcc cttcgacaaa aacgggaagc ccattggaga tcgggctaat tcgatatggc 360

tgtacatcgt acccagcggg atcaggaagc tgatgaacta tgtcaaggag cgggacaata 420

tcccaacggt ttacatcact gaaaatggga tg 452

<210> 36125
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-C11

<400> 36125

tcgattgctg aattcagggt ggttgctcga gctttatttt gattttgggg ggtgggtttc 60

agtggcaatt catgacggtg cggccggggt gggtcgtgtg ggtggcgcat ggctcggcgg 120

aattnaagaa aaggctggct tgcaagacag actccctggc cagtatacgg gtgattaacc 180

aaaacaaatg cacgtccaac acacccaaat acagatttgt tgtgcgattt accaacaagg 240

acatcactgg ccaaatcata tctgctatta tagtgggcga tatgggtttt gcttctgcct 300

actcccatga gctggcacca tatggtcttg aagattgtct gaccaactat 350

<210> 36126
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C2

<400> 36126

cccacgcgtc cgcttcgctt ggcctaccta ttggaattgg ccccagctct agaagaattg 60

ggattgcatg tgaatggcgg tggcgtggat gttgggtggg cactcagacg gaatatgtta 120

ccgtactcac acaataggct caagagggtc cttatttcag gagccactgt atgggagggg 180

ctaatggagc tggcatacta cattcttcgg agtgccaata gactcgaaag tatggtctta 240

gatccaaaga taaggattgg gggtcctcag ctggatggtt ggatgattga tattggtagg 300

gagacgatca aaaatatttt tgagggagag gagtttcaga gcattattac tattctgtaa 360

gaatggtaag ataggccaca ggattttggt ggtcacacca agtggccatg tttgattatg 420

ccataagttt gaccagtatg gtcataaatg tt 452

<210> 36127
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C3

<400> 36127

gtcggcaggt cccgtgctcg actgcctggt taatctgtcg gacagcgtgg gccacctccg 60

ggacgcggcg caggagatgg gcggcgccgg gatgggccgc gcggggacgc cggcgttcag 120

gtggcacctc agcaacgtgc agacctggtg cagcgccgcg ctcaccgacg aggacacctg 180

cctcgacggc ctctcgtccc gcgccgtcga cgccggcacg cgcgccgcca tccggggcaa 240

ggtcgtcgag gtcgcacagg tcaccagcaa cgcgctcgcg ctcgtcaata aggtcgggcc 300

tgggtactaa cacggggagg ggacccaaga tccaggccca ggcccagccc aggtaccaca 360

cccgctacta gtatagtact aggcgccttc accttcacgg cgttgggtgt ttctcgtccg 420

ttaatagctc ggtttgcttt gctt 444

<210> 36128
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C5

<400> 36128

ccaagatggc ggaggagaag gcgtttgcag ttggcggact cggaggagcc ggggcggcgg 60

gcgcggcgca acagcagcag ctggcagcag gggaggccgc ggcggcgcgg gtgcggcccg 120

tggagacgct gcttcgcgcg gcaccgctgg ggctctgcgt ggccgccatg accgtcatgc 180

tccgtaacca gcagagcaac gagtacggcg ccgtcgccta ctccgacctg ggaggcttca 240

agtacctcgt ctacgccaac ggcctctgcg ctgcctactc gctggtatcc gcgttctaca 300

ctgccgtgcc gaggcctgcc accgtgtcgc gctcctggct cgtcttcctc ctcgaccagg 360

tgttcacgta cctgatcctg gcggcgggcg cagcggcggc ggagctgctg tacctcgcct 420

acaacggtga caaggaagtg acgtgg 446

<210> 36129
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C6

<400> 36129

actagttcta gatcgcgtct aaacccttgt ttccttctta tccccacctc cctcgcggag 60

cgactcgccg ccgccgccgg ccgcagccat cgccgtgatg ctgtccctgt cgagggcgat 120

cgggaggcgg ctcttctcgt ccgccgaggc cgcgtcgacg gctgcggtga ggacggcgca 180

gaacccgctc gaggagttct tcgaggtcga gcggagcacc gaggagggca agcctcctcc 240

ccactacggt cgcagctgga aggcttctga actgcgacta aaatcttggg atgaccttca 300

gaaattgtgg tatgttcttc taaaggaaaa gaacatgcta atgacacagc gtcaaatgct 360

gcattcagag agcatgaggt tcccaaatcc agaacgaatt tccaaggtaa agaaatcaat 420

gtgccggata aagcatgtct tgactg 446

<210> 36130
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C7

<400> 36130

cccacgcgtc cgatctcacc cgactcgtct tacgtcagcc agcagttcga aacgaaggag 60

ggatccagga gcttccggaa ggcgaggcgc gcgcgcagcg tcgaggtgct ggtgccggtg 120

ccgcccatgg atcgggctcg cggatccgcg ttcctgctcg gcgtcctgct cgcaggatcc 180

ttgttcgcgt tttcagttgc taaagaggag accaagaagc tcgggaccgt gatcggtatc 240

gatctcggta ccacctactc ctgtgtcggt gtctacaaga acggtcatgt cgagatcatc 300

gccaatgacc agggtaaccg tatcacaccc tcatgggttg ccttcaccga tagcgagagg 360

ctcatcggtg aggctgccaa gaaccaggca gccgtcaacc ctgagaggac catctttgac 420

gtcaagcgtc tcatcggaag aaagttcgc 449

<210> 36131
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-B1

<400> 36131

cggacgcgtg ggcggactcg tgggatagcc ttcaatctaa caaagccacc gcttaggctg 60

agttcgctga tggcatggcc cgggtgagca aggcagcaaa tggcagcagt ttgctggcca 120

attgttcctt ttagccttgg cacctgttat ttttaaatct ttatgaattt tgtctcttta 180

ttttgcccaa aatacccttt tcatatttcg gactcataga acttcaaatg tctcagtgct 240

gcacatatta tggagctgca ggacttcaat tgtcttgtag cctagtttca gttaaaacat 300

ggtaatttgg atatttcgtc atgattacat cggtatttat gttggtgtcg ggcaattaca 360

tatattttgt gtttaaaagt tagccctggg aatagtgaaa tcctggctat gccaccggta 420

tagtttggac atangcaaca acatattgtc tcatat 456

<210> 36132
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H5

<400> 36132

cccacgcgtt cggagtcctg ctttttcgcc ttctttccct gcaccatctc ctagagcatt 60

ggtggcttca tttaaggacc gatgtgtggc atcaaaccct ccgctattca tccgcttgta 120

catgtcatgc aagcttgctt gctgggactg atgcgcgaca cctcccttta a 171

<210> 36133
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H6

<400> 36133

cccacgcgtc cgcccacgcg ttcgggtggt ttgacggtgc tggcatcgcc aattcaactc 60

cgcatctgca tcggcagcgc gccagctcca tagtgtagga ggagatggcg ctcacaagaa 120

tcggtcttgc tggccttgcg gtcatggggc agaaccttgc cctcaacatt gcagagaaag 180

ggttccccat ctctgtgtac aacaggacaa ccttcaaggt ggacgagacc gtgcagcgtg 240

ccaaggcaga aggaaacctt cccgtctacg gcttccatga ccccgcgtcc tttgtgaagt 300

ccattcagaa gccacgggtg gtgatcatgc tcgtcaaggc cggcgcgcca gttgaccaga 360

ccatcgcgac gctcgcagct cacttggagc agggcgactg catcatcgat agggggaacg 420

agtggtacga gaacacggag aggagggag 449

<210> 36134
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H7

<400> 36134

cggacgcgtg ggcggacgcg tgggcggacg tttgggcgga cgcgtgggcg gacgcgtggg 60

cggacgcgtg ggagagaagg aaaaatatcc ccaaacccta gctcccgatc tcgatggcga 120

accctcgcgt cttcttcgac atgaccgtcg gcggcgcccc ggcgggccgg atcgtgatgg 180

agctgtacgc caacgaggtg cccaagaccg cggagaactt ccgcgcgctg tgcacgggcg 240

agaagggcgt gggcaagtcc gggaagccgc tccactacaa gggctccacc ttccaccgcg 300

tcatccccga gttcatgtgc cagggcggcg acttcacccg cggcaacggc accggcggcg 360

agtccatcta cggcgagaag ttccccgacg agaagttcgt gcgcaagcac accgtccccg 420

gtgtgctctc catggccaac gccgggccca acaccaacgg 460

<210> 36135
<211> 498
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-050-Q1-K1-H8

<400> 36135

cggtcttgaa ttaccacgcg tccgaccacg cgtgcgccgt cgacggcttc ccgaatcggg 60

gccttcacca tctccaactg caaccccacc ccatgccgcc gtcgactgcg ctagggtttt 120

ggagtgagga tcgccgatgt cgacggctcc caggcgcccc ttccgaggcc gcggcgcccc 180

gccccctggc accggctacg tccgccgcgg ccccgccccc gccccaggcc ccgccgacgg 240

cgccaagacc ctgcgcaagc ccgtcttcac caccgtcgac cagctgcgcc cccagacgca 300

cggccacacc ctcaccgtcc gcgtcatcnt ccgccgcacc gtcctcgaca agcccttcac 360

gcacatcggc cgcacccgcg tcgcaaagtg cctcgtcnga gacagcaccg gcaccgttct 420

cgtcaccgtc cgcaacgaac aggttgacct tctgaagcca gataccacag tgatcttccg 480

caacgctaag aatgacat 498

<210> 36136
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H9

<400> 36136

accacgcgtc cgccttccct tccctttctt ttcccaggct cccactctca cccggtggcg 60

gctacctaca caaacgggac acgaactaac agccacctat cacgtacccc accctctggg 120

tcatgtactg ctgctcccca tgtcgcctcc actcgagctc gactacatag agcctctcgc 180

cgccggcggc agccgtcgcc gctgaaaacg acgaactgaa gggtactgag ctccgactcg 240

ggctgccagg gtccgggtcg ccggaccgcc gtgtcgcggc tgtcaccgcg accaccctgg 300

acctggtacc gccaaaggcg ccaagcgcgg gttttctga 339

<210> 36137
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A1

<400> 36137

tctttctaac tgctttgttt aactttaaaa tcttattatt tactcaacaa acagcaacag 60

gcaccggtct ctcctgctcc agtggcttgc agatcaatat caatccctgc ctgccttggc 120

accaccacca ccaaccagca gcacgagcat gacacattgg ctggcttcag tctaaaaaaa 180

acccccagat gccatgg 197

<210> 36138
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-A10

<400> 36138

ccgggccgag cacgcgtncg ggacgcgtgg gagagaggtt ttatcgcaat ttgaaattat 60

ttgctgatcg agacagcatc ggtttagaat tgagacagtt aaagagaaaa agagaagatg 120

aggagttgca tgtggagcgt aaaaaggcac agttggttga taccaagaaa atttctattg 180

acaatagtca tgcagctgct gtggatacct ctgagctagt agttgaaatg atgcaagtga 240

aggaagacat tgagaaccaa gaattagttg tgcagaaaat taatttgaaa cttacagatg 300

ctttgcaaga agagaataat agaagagcgt cttacaagga cttcattgag tctgtacatg 360

ctgaaatggg gtctattagc gatgctgagc gtgaattgca gcttgttgaa gaaaaaatac 420

atgatgctga gcaagagaag gctcactatg aacgtgttat gga 463

<210> 36139
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-A11

<400> 36139

cccggctcca gcattnccac tctcgcgcgg ttgtcgccgg agcgagcaca ggggcncaaa 60

ggcccgtctg atcggccgcc gccaagatca atgacgccga tgtagccaag cagatccagc 120

agatggtgcg gatcatccgc caggaggccg acgagaaggc caacgagatc tccgtctccg 180

ccgaggagga attcaacatt gagaagctgc agcttgttga agctgagaaa aagaagatta 240

gacaagagta tgaacgcaaa gagaagcagg ttgaagtacg gaagaaaatt gagtactcta 300

tgcagttgaa tgcttctcgc atcaaagttc ttcaagctca ggatgatcta gtaaacaaaa 360

tgaaagacga tgcgatgaag gaacttcttc ttgtcagcca caaccaccat gaatacaaga 420

acctttttga agatctaat 439

<210> 36140
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A2

<400> 36140

gaagaagagg tcggatccag gtgacatggg ttctgcatct gcaagtacct cttcaatacc 60

ggacaaggga cctgaaaagg ctaaatcagg cgcagataag aaaaataggc caaaagatgt 120

ttttggtcgg ccattggcaa cagaacaaga atttgaagtt ctcaagaatg ctccaaggtt 180

agacacaggt gctcctgcaa gggtcaaacc atttggagtt gaagttcgta atgttagatg 240

tttaaggtgt ggaaactatg gtcaccaaag tggtgaccgg gaatgtccct tgaaggatgc 300

aatcatgcct aacgaggaga gtctgttgaa aagagacgat ccacttacaa ctataatggc 360

gcatacggat tcaagtgagc ctttgaagtg ggaacttaag cagaaaccat gcatgagccc 420

tcctcgtggt ggatttgacc cagatgat 448

<210> 36141
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A3

<400> 36141

cccacgcgtc cgctagttct agatcgcgag tggccgttct ttttttttt ttttttttct 60

tgttttgggt ttttttttt agcttcggga gggcctgcac attttgctgc acaatatgaa 120

aataaatctt ccaggatctt gatcgagtta gatgaccaga aagtagcatg gacaatttgg 180

aaaaaaatcc aattggaatc taccgttctt gattcattaa ttttaacctt gcctaacgca 240

tttcagtcta ctatattggt acttgacgtt tcgatttatg tgcactcttt gatcattctg 300

taattcttgt aacatggtat tttattgcca tctgaaatgg tccacaacca gcaaatatag 360

tt 362

<210> 36142
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A4

<400> 36142

accagccggt cggacttctt gcgctccaag ttctcggcga ggatggaaat gttttttggg 60

agctttgtca gtgaatcagt atcaccgcag aacctttcg gacacccgga tgttgagaga 120

tgcccattcc tgaggaatat caatggagct acaacctttt ccctcgcttc tgctttgcca 180

gtagctgctc aaggaggcaa gggtccaatt tttgaggaag ggtcaggctt tgagtcagca 240

ttcaagcttt tccatggccg agatggaata gttccccttt cagaaagatc atatgtatct 300

gatgaaaacc acaatgagag cattgatgtc aggactgaac ctgctctgcc gtttaatcca 360

ttggctgcta gagcaagcac aataa 385

<210> 36143
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A5

<400> 36143

aacaccagcc gtcgtcatgt cgattcgagg tttgggaggt tcggctggga acaggttccg 60

ggtggcactg ggtctaccgg tggcggccac ggtgaactgc gcggacaaca cgggcgccaa 120

gaacctctac atcatctacg acaagggcat caagggccgc ctcaacctga tcccgtgcgc 180

ctgtgtccgc gacatggtca tggccaccgt caagaatgga aagcccgacc tcaagaagaa 240

agtgatgccc gtcgtcatcg ttcgccagcg caagccgtgg cgtctcaagg acggtgtcta 300

catgtacttc gaagataatg ctggagtgat tgtgaatccc aagggtgaga tgaaaggttc 360

tgcaatcact ggacctatcg gcaaggactg tgctgacctt tggtctacga tcgtcagtgc 420

atcaaatgcc atcgcttgag agcttgatgg aatgt 455

<210> 36144
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A6

<400> 36144

cccacgcgtc cgcccacgcg tccgtccacg tttccggttc cgcttcctgt ccgtcggaaa 60

ggttcatcgc ttcctaaaac acctccatgt gttggatcaa agagaatttc cgagaacagt 120

gttgctagaa gattctcgac cgggactcta tctacgatga aatctcatag caatgcacct 180

gcaaaatcaa acggtttatc taggactggt gtacaaagaa aacttcactt ggatcgtcag 240

ccaccgcaga agagtacaaa accgaccgag aacagcaata agctagctac aaatcgggtc 300

ccagcccgga acagcccatg gaatcctgta cttaggcatt cacgcagctt gcctgaaact 360

ggtcgacgag cagtacagaa ggtctcatca atcacagaga aactgtcgca aatgtcggtg 420

acctccagaa cacgaagcgc cgtg 444

<210> 36145
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-A7

<400> 36145

gactagttct aggtcaagag cagttcagct tccaaacaag ctctcctttc gctggcgatc 60

catggagctc gacggcgaca acctgagcgc caccgagctc cgcctcggcc tgcctgggac 120

cagcagcagc agcagcgacg actggcagaa gaagccgtcg ccctccgtcg gggccaagcg 180

cgctctggac gacggcacca agagcgaggc ctcggggacc agcccggccg ncagagacct 240

cgacttcgac cacgaccacg acaccgtcgc gccttccaag gcgcaagtgg tcgggtggcc 300

gccggtgaag gcgtacagga agaacacctt ccaggcggcg gcggcggcca agaaggtcga 360

gcagaagcag aagcagcagc agcagggagg cctgtacgtg aaggtgagca tggacggcgc 420

gccgtacctc aggaaggtgg acctncggat gta 453

<210> 36146
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A8

<400> 36146

cccggccgac ccacgcgtac gccacgcgtc cgttttggtg cccttatggg ttcattggat 60

ggaggcctgg atatgcctca gagcgagaag aggttggctg gattcaagaa ggacgacaag 120

cagttggatg ctgataccca ccgcaggtac atctatggtg gccatgttgc tgactacatg 180

aagaaccttg ctgaagagga cccagaaaag taccagagtc acttcagtgc gtacattaag 240

aagggagttg aggctgatga aatagaagcg ctgtacaaga aggtccatgc tgccatccgt 300

gccgatcctt acattgttaa gtcaaccaag cagccaccaa aggagcataa gaggtacaac 360

cccaagaagc tgacatatga acagaagaag gccagcctca ttgaaaggct caaccaactc 420

aactgcttcg gtggtgctga tgacgacgat gaagacgacg aagta 465

<210> 36147
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H4

<400> 36147

caatgggccc tctgaaggag atcgtcggca gcatacagtc acaggttgcc aagatcgagg 60

atgacatgaa ggttcgagca tcagaatata ataatgtaag gagccagctt agtgcgatca 120

acaggaagca aagtgggagc ttagcggttc gtgatctttc caatctggta aaaccggagg 180

atatgatcac ctcggaacat ctcgtgacac ttcttgcaat tgttcccaag tactcccaaa 240

aagactggtt gtcaagctat gagaaaattg acacattcgt ggtacctagg tcctctaaaa 300

agctctatga agacaatgaa tatgctctct acactgtaac act 343

<210> 36148
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G1

<400> 36148

cgtcgcacgc tgcgattctt tctgaaattc ttaccattct tatactatcc tacacggcat 60

ttgggctcgt tgctggatgt cggacgctgc tatctgcctg ccgctcactc cacgccccaa 120

tgtgccactc ccactcgggc cgtcccacca ccgggaggcg ctaggctact atgtctctgc 180

cctagcctag tcgccgtcgc gtcgtcgcag caccgagcga atgcgagccc aacatcacag 240

cgctcatgtc aagggcgcga gcaaggcttt ctcgtcgctg ctggacaagt tctacgacgc 300

gct 303

<210> 36149
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G10

<400> 36149

cttgcccgcc ccctcctatg gggaattctt cggagctgta ccacaagatc ctcagcaggc 60

ccaaggacac ctcgccggac gaaatccgcg ccgcgtacaa gaacctcgtc aagaagtggc 120

accccgacaa gcacccgccg tcgtccaggc cggaggccga ggcgcgcttc aaggccatca 180

gcgaggccta cgaggcgctc ctggaccagc aggagaacag gggcgtgttc gagctgtgca 240

acgacggccg ggcgggtgag aggacgcgcg gcgccttcgg cggcgccggc ggcggcggtg 300

gcggaggagg aggaggcctc ggcgccggcg tcggggcgcg catggagagg acgcgcagcg 360

acgggttctg cacgaggagc gcgcccggca cgccggcgag ggagttcaag aaggtgtaca 420

<210> 36150
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G11

<400> 36150

cccacgcgtc cggaagaaca cagggcactt gcactacacg cacggcacgc agatacatag 60

agagagaggt tagctatagc ttgcacatct atttaactaa ctaactaact ggctagctag 120

ctcgatccgc agagcaaagc gaaagcagca agaagcaaag caatggagaa ccctgcgagt 180

gtgctagttc taccagcgca gttcaccaaa ctcaccttcg gaaacctgta catccgccgg 240

gccgggccgg gcagcatgga gataaccgag gagggcaggt gcgacctgga caggagatac 300

gtgagtaact tccccgtcta cgacggccgc ggccccgacg ccagccttgt ggcccgcgtg 360

caagggatca ccagccgaaa tcggaacgcg caccaactgt tcgtcg 406

<210> 36151
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G12

<400> 36151

cccacgcgtc cgcttttttct ttttttttttt taaaccgaac accataattc attttgaggt 60

ttttacccgc tgccagctac caaccaatgc atgtacgtgt gttgcccttg tggctgaccg 120

cggtgccact cgtttgccag ccaccgagtc atcggcaaat gaactggcgg ggtaccgagc 180

caagcaggaa ggccagtacg acacacgcag aagaagaaca cggcgggcca tgcacgccaa 240

aaacattgaa gtcttcagtt taccaacaca catgtcatga agcaaaacag cggggactcg 300

tccatgatat acaggttcct ggtacagatg cagagtggcc atgggacgga gagtcggata 360

gacaggacac cggtgtgtta cgctagggct ggctggctga cgacgtg 407

<210> 36152
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G2

<400> 36152

gcaagccatg tggaggaggg ctttagcgat tttcctgttt atggctggcg ccgcgctgct 60

cgccggggct gccggcgccg gcgcgcagca gggcgtgtgg agcatcatca cccggcccat 120

gttccagagc atgctgagcc accgcggcga cagcgggtgc cagggcgcct tctacaccta 180

cgacgccttc atcgaggccg ccagcaagtt ccccggcttc ggcaccaccg gcgacgagca 240

gacgcgcagg cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccggtgg 300

atgggcgact gctccggatg gaccgtttgc ctggggatac tgccgggtga aggaacagaa 360

acagacggac ccaccctact atggacgaag acccatacag ctaactcata agtacaacta 420

caggctcgcc gggcaagcgc tg 442

<210> 36153
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G4

<400> 36153

gcgccacgcg tgcgcgcacg cgtccgctct ccttccgtcg ctttggcgag cgataaccgc 60

gcgtggctcc tccccttcgc cgccgccgtc cttgtggtgc tcctcgctgg cggcgccgcg 120

gcggacgatg cctccagcga cgacgacgct gggacttcac ggacacccgg ctgctccaac 180

aagttccagc tggtcaaggt gaagaattgg gtgaatggga ctgaaggtac aacttttgtt 240

ggcctaagtg caaaatttgg agctcccttg ccaagagata ttcatgaagc aaaaaagtca 300

tttgctgtcc tctcaaattc aattgactgt tgctccaact tgacatcaaa gttaacaagt 360

tcagttgcta tagcaacacg tggggaatgt gctttcacgg aaaaagcaaa tattgctcaa 420

gccagtggtt cgaccggttt actagttatc aaagataatg aagagct 467

<210> 36154
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G6

<400> 36154

cccacgcgtc cgcccacgcg ttcgataatc ttttcttcac ctcactaaca ccagctagca 60

ggtctttctc tcctgcaata atggccgctc gctcctcctc ctcccagccg cagctggtcg 120

cggcggcggc ggtcctggca gcggcgctgc tgctgctggc ggcgggggcc gggacggcgt 180

cggcggcggt gagctgcggc gaggtgacgt cgtcggtggc gccgtgcctc gggtacgcga 240

tgggcagcgc ggcgtcgccc tccgcggcgt gctgcagcgg ggtgcgctcg ctcaacagcc 300

gcgcgtcgtc ggcggcggac cggcaggcca cctgcaactg cctcaagagc atgacgggcc 360

ggctcggcgg cggcgtcagc atggccaacg ccgtcaacat ccccggcaag tgcggcgtct 420

tcgtcggcgt gcccatcagc cccaccgtcg actgcaccaa g 461

<210> 36155
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G7

<400> 36155

cgaataatct cttcttcacc tcactaacac tttctagcaa ctctttctct cctgcaataa 60

tggccgctcg ctcctcctcc tcccagccgc agctggtcgc ggcggcggcg gtcctggcag 120

cggcgctgct gctgctggcg gcgggggccg ggacggcgtc ggcggcggtg agctgcggcg 180

aggtgacgtc gtcggtggcg ccgtgcctcg ggtacgcgat gggcagcgcg gcgtcgccct 240

ccgcggcgtg ctgcagcggg gtgcgctcgc tcaacagccg cgcgtcgtcg gcggcggacc 300

ggcaggccac ctgcaactgc ctcaagagca tgacgggccg gctcggcggc ggcgtcagca 360

tggccaacgc cgtcaacatc cccggcaagt gcggcgtctc cgtcggcgtg cccatcagcc 420

ccaccgtcga ctgcaccaag atcaactgat cgatggaacc 460

<210> 36156
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G9

<400> 36156

gttgctatgg tcttgggcta cgatgatgtt aaaaatgccc aactactcaa atgcgaccgt 60

gctggtcact tctttggaca taaggcaact agtgccgggc tcaaggagca ggaagcaata 120

aattttctgg agaagaaaat gaaggatgac ccgaaattca cctatgacga aactgtgcag 180

attgcaatat ctgcgttgca atcagttctc caggaagatt tcaaggccac tgagatcgaa 240

gttggtgttg tgagaaaaga tgaccgcgtt ttcagagctc tcacgacaga ggagatcgat 300

cagcacctga cggcaattag tgaacgtgac tgagatgtca tatgctgcac atttcagcgc 360

tgcatacact gcgccgtgcc attgtgcttc ggcagtcaat taagtttcat agtcatcata 420

ggaactgagt gtaccatttc 440

<210> 36157
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H1

<400> 36157

agcctgataa cttatgggtt atggctcatc cgataatcag ggttgtgatg cagaacataa 60

ccgatgatac cgcccagaac agcaagaaca gacctgtcca cagcagcaac gactacctga 120

tcgacaggac ttacaccgac actgctggta tgtctatcat gtacgttacc gatctcttca 180

actcgtaaga cttcgagcac gacaagttca atgacttgct ccacgataag aacggtatca 240

caatatacgc gaccatggta tacaaccaga gatgcattat aaagtaa 287

<210> 36158
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-050-Q1-K1-H10

<400> 36158

caatcacgga agggcttcaa tctcgggatg gcaacnttct tttgtcatgt agagagaagc 60

acttcatgcc atcataagaa acgcgaagag ctgatgatgc tagttgtgtc agactaggga 120

caatgtttgc taaatactgg gtctagttca gtcaagccac aggaacctga tccnaaatgc 180

tttccaagtc ctcctgtttc ggcctgcgaa cttctgaaac atctnggaca ttcaattggg 240

gagctttctt atggctcagc naggctgcat atncctgcat atcgaaactt atgactatca 300

gccattcaaa tgccacaagc ctgctgctca aacagctgcc tatggcgctt atccttcaac 360

atactctggt caggcctata cacaacaaag ctacacacaa cctgcaacaa t 411

<210> 36159
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H11

<400> 36159

accacgcgtc cgacccactc tactactctt agttactacc agcagcttgc ttcaacaggg 60

gaagagagcg agccgaggat ggcgtcaccg aagccctcgt cggcggccct gctcctactg 120

gcggcggcgg ccgtgctggc gctggcgcgc gcggacctga cgcacgacaa ctgcgtgaag 180

aacacgaagg tgacggtgca gaacctgtgc agccacgacg tgacgctgac gctggagccg 240

atggccaaca gcccgtcgct gttcgcgggc acctacacgt tgcacccgcg cagacacgcc 300

gagttcccc 309

<210> 36160

<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H12

<400> 36160

cccacgcgtc cgcccacgcg tccgttcact cgtccgccca cgcgtccggc aacccaccgt 60

gtcgtccgcg tcctccacgc cctcgtcgtc ctcctccaca ccgcgcgcgc ggcggtgttg 120

acccacccac ccgttcctcc cccaccccat cagcgctgga ggcggcggtg cgtaagtccc 180

ccggaccctt cggcggcggc ggcggcgcgc gggtatgccg agaggcttcc aggtttcatc 240

accgggctct gctggagtta tagcattttc aggcaggata tggagtaca 289

<210> 36161
<211> 124
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H3

<400> 36161

tcgcggaaag gctgttttgc ggtgtgatcc ggtgtcgttc tttttgttgc tgagaactgc 60

tttgggttgg tgtatcagct tttgatgccg ggtaaaacgc ctgtgagctg tgatgtgatg 120

cttc 124

<210> 36162
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F8

<400> 36162

cggacgcgtg gggcgtacgc gttccgaacg ttcgtgggtc ctgcagcctc cgtctccacc 60

tagggttctg gcgatggcgc acggcggcta cccacgccgc ggcgccgccg tacgcaggcc 120

caagtcctcg gcctctgccg cagttgccga ccgcaagcgg aagcggaccg ccgtcgtcgc 180

caagaccacc tcccttaaga accagatccg ctccaccgag cgcttcctcc gcaaggacct 240

tccggatgag attagggttg ctcaagagaa gaaactggaa gaactgaaga ggcaacaaga 300

gcttcagaat caacttgctg tccagcggac attacagttt agagatagaa agataaaatt 360

ctttgagaga cggaagattg agaggatgat aaggcgactc gagaagcaac aacgttcaaa 420

tggggatggt gtcaacaata atctgtcaaa attgcgaga 459

<210> 36163
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D9

<400> 36163

aaaaaacaaa aaaaaacttc aaaaaaaatt ataaaaaaaa aaataaacaa aaaaaacaaa 60

ggggacattt tacataaaaa gcgggtacca ccaaaactat aaacaaaaca cttgaatatt 120

gaaaggctac cacgtttctc gaggtccgga tcatggtcaa aaaccatgat cctaaccgtt 180

cattctcatg aaggtctaat tgcaattcta gcgcagtcac ttttcacagg gatgattgct 240

aaaactctcc atgacaccta tttcaatgtc ttgaaatagc attcacttct attatgatgc 300

acctatgtag ataaggtccc agcgcatgtg acttttcaac tgctgactca tataattggg 360

aatagtaccc ccccttatgg ttgcct 386

<210> 36164
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E1

<400> 36164

atcatatcag aaaaggggaa gctgatgtta ttctttgtgg ttgttctgat gcaccaatca 60

tgcctattgg ggtgggaggt tttgtggcct gcagagctct ttcacagaga aacagtgatc 120

cagcaaaagc ttctcgacct tgggatgtgg atcgtgatgg atttgttatg ggagaagggt 180

ctggtgtgct tgttttggaa gaacttgagc atgcaaagca aagaggtgca gaaatatatg 240

ctgaatttct aggaggaagt ttcacatgcg atgcatacca tatgacagaa cctcatcctg 300

aagggaaagg ggttattctt tgtattgaaa acgcattatc agattcagga gtaacaaagg 360

aggacattaa ctatataaat gcccatgcaa catctacaca gatgggtgat ttgaaagaat 420

ttgaagctct caaccggtgt tt 442

<210> 36165
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E10

<400> 36165

cggacgcgtg ggcaaaatgc tccttgagta aaacaacata ctgcaagtca atgaagtcga 60

atttattaac atggacaccg acacaaaaca tcctgatcct catcacaact accttctgac 120

tagcttatta 130

<210> 36166
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E11

<400> 36166

gcactccatt acaatggcgt gatcgatgct ttcaggaaga ctgttcgtca tgaaggaggt 60

ggtgctctgt acaagggtct tgtgccgaac tcagtcaagg tggtgccctc aattgccatt 120

gcatttgtga cttacgaggt tgtgaaggat gtgctaggag tagagatgag gatatcagac 180

tgaggatggt cgttttcaac tgctattttt gtaggctttg ggaagttgtg ttttttgta 240

ggcagggcgg gtagaaggat atgaccgcgg ctccattcag catcagccca tgttggatat 300

atcatatatc ctgccactgg ctttaggtcc tagaattgtt tgctgggtcg tgcaaaagta 360

ataaagtcgc tgtaaagctt attaagcatt tgctaactta tcaaagaaat ctatt 415

<210> 36167
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E2

<400> 36167

ctacgcggac gcgtggtcag agccacgtta gccgatttct cctattctcc tctcgtgtct 60

ggccgaacag gcagagcgac cagtctccag agcgctcccc atggcgtcag gagctgcggc 120

ggcccctgtc gttcagactg tggtgctgaa ggttgccatc cactggcatg gctgcaagaa 180

gaaggtccgg aaggtgctca agggcatcga aggcgtgcag gacgtgacgg tggacgcctc 240

gcagcacaag gtgactgtga cgggcaccgt ggacgccgac acgctcatca agaggctgta 300

caagtccggc aagaagggag tgccctggca gtgtcacccg tccgccaaga acagcgagcc 360

cgcgc 365

<210> 36168
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E3

<400> 36168

cgacccactc gtgcgcccac gcgttcgccc acgcgtccga ccacgctccc ggaagtataa 60

taactatgac tttcgggggt gcccgggtgt ctactgctgg ggtcaaccat gcctgacaat 120

tggacaatca gacatccatc gatctaacac cgtgaagata tactgaccca agagggaata 180

catttactac ccacggtcca agtaccatga cattcactgt acatactttg ggacaacgtt 240

ccctcatctg ttactgatga cttactatca cctaaagcca cagaagcttt ccaatcacta 300

tgttccctcg agtttttcgc tttaagctgc acacaccatg aacctcaagt atttgtcctt 360

ta 362

<210> 36169
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E4

<400> 36169

ctacggcaat cttatgctgg gtgaccggga gaattactac ggcattggga aacacacata 60

ttgtgcctat gccattgata cacttggcag aacccaacct tatgtccagt ccaaacgaga 120

taatcccgaa ctttttcact tgaactacac tttagtatgg caatcaaaca tcccttggag 180

catctacgag aatctttata aattgcacta tctaaattac catttaaaga gtcatttaca 240

ttaacaccgt gttctatatc ttgtccatgt gcatcattat ttctatgtaa tgtatgtact 300

acaacgagcc attcacgtgc agaactcttt ggctaacgat actccgtctc tacatgacta 360

gtctattcac attactattt aaataacttg tttgaagcta tttttatacc aacatctata 420

<210> 36170
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E5

<400> 36170

cccgcgctaa ataagaactg ttttaaaatg ttattgacca ttcattactc caaggttcac 60

agtggatata ctatcggact atggattgca accataattg ataaaaggtc atacatcgca 120

aaaatgacat aaataatact ctgacatata tgagcataca actagatcca tacaactatt 180

caataattaa ataggctgaa cacatttacg tagatagatt actacattac agtgtcttac 240

tgattctatc 250

<210> 36171
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E6

<400> 36171

gtaggaaggg tgttgccatc ttttttgaga tttgcgacga cgaacgtatg ctggttgaca 60

tgcataagtt ctacaacgtg ttgattgagg agctgcctgc caatgttgct gaccttctgt 120

gatcaatttc aagaaaaaac ataacaaaaa agggtggtga ggaacctggt aaggcttggt 180

tttgtcgaaa taccgtggga gaggggggtga ttaggacggt ggggtttcta tgttgaagtc 240

gtggacatgg acaatttgtg attttttctc ctttatgcca tgttttggaa tatttgtagc 300

tgcctatgcc tcgttgtaat gtgctgctgt ggtggttc 338

<210> 36172
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E7

<400> 36172

gtgcgccctc gcgaggtcga acccccaagg tgaggcgacg aaaccctcgc cagtccccaa 60

cgggaacctc agtcaggcgg cgtgagggag ggagagttcg aggaccgagg cggcgtcggg 120

cgagatgaag cttaacgtca agaccctcaa gggcaccaac ttcgagatcg aggcgagccc 180

cgatgcgtcg gttgctgacg tgaagaggat cattgagacc actcagggtc agagtaccta 240

ccgggcggac cagcaaatgc ttatatacca agggaaaatt ctcaaggatg agaccacttt 300

ggaaagcaac ggagttgctg agaacagctt ccttgttata atgttgtcca aggctaaagc 360

atcgtcgagt ggagcttcta ccactactgc tgcaaaagct cctgcaactt tggcccaacc 420

tgctgcccct gtgccccctg ctgcatcagt tgcaagaaca cc 462

<210> 36173
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E8

<400> 36173

gtgatcccct ccagcacccg cttgtggagt tctactgggg caatgtcaat cccatcggtg 60

tgaggagctg ttacgatgag ggcaagcgta cagccgaaac gttgaccatg gattaccacc 120

gtggtgccaa ccttgaggtt aggatcgcac gtatcttcaa cacatatggc cctcgcatgt 180

gcattgacga tggccgtgtt gtcagtaact tcgttgctca ggcactgagg aaggagccct 240

tgacggttta tggtgatgga aagcaaacca ggagtttcca atatgtttct gatctggtcg 300

agggtctgat gaagctgatg gaaggcgagc atgtaggacc atttaacctg tgcaaccccg 360

gcgagttcac catgctggag cttgccaagg ttgtccagga caccatcgac cccaacgcac 420

ggatcgagtt ccgtcagaac acccaggacg acccac 456

<210> 36174
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-050-Q1-K1-E9

<400> 36174

gctcgctccc aactcccaag ccaagccggt tcccaaatcg gcacagcgca cccactccgg 60

tcagtccctt cgttcacccg gatccatcca gccagccagc cagccatggg cggcaaggac 120

tgcggcaacc acggcgagga cgacctgcgg cggtcgtgcc ggcgcctgct agcgatcctc 180

ctagtcctgg ccctgatcgt gggcgtgatc gcgctgatca tctacctggt ggtccgcccc 240

acgcacccgc gcttctacct gcaggacgcg tcgctgcagc agctagacct ctccaacgcc 300

accaccacca ccaccacctc cgcgtcctcg tccctcctct ccacgacgct gcaggtgacg 360

ctggcctcgc gcaacccgaa cgagcgcgtg nnggtgtact acgaccggct ggacgtgtac 420

gcgtcgtaca agt 433

<210> 36175
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F1

<400> 36175

tcgcggacgc gtgggcggac gcttggcaaa aattcttaaa catttatgaa aaatataaaa 60

ctaaaggaaa atggggccaa attcaaaagg ccatagacaa caacaaataa aaaaaaacat 120

ataaaacaaa ctaaaagggg 140

<210> 36176
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F2

<400> 36176

acgcgacccc ttggctcgac ggcaagcacg tagtcttcgg ccatgtcgtc gagggcatgg 60

acgtggtcaa gggcatcgag aaggtgggca cccgcaacgg ctccacctac aaggtggtca 120

aggtcgctga ctgcggacag ctcttctaga tctctctgat ctggcctgtt cggtcgacct 180

acctccgtca tcgctgactc cccctgcgtc cgttactttg gatctgaata agatggtggt 240

gatctgaatg gtggtcttag tacatcatgt atcgctcgca gtttaatata gcggtttatg 300

tgtggatctg tgaaccccat g 321

<210> 36177
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F4

<400> 36177

cgaaccacgc ctacggaaaa ctgcatccag gagaagaact cgagttttac tcgctctgat 60

agccaaagat caccagcggc atagggatct aaaacctggg attcatgatc accctcttcg 120

acattctcat cccttgatgg caacaggtca acacaacaag acctatcatc cactgaccca 180

atgctatttc cagagagacc ggttaagagc tcgcccaaac tcaacagttc ttttgacagg 240

gacaatggac tcgactaccc tgatgatgtg cttaccaagt ccatgaacat gcccatagtt 300

caatccagcc tgccaactct tggcattaga aatcttgtga atgattcaat ctacaaagat 360

agccatgaat tgtcagtcat aattaacact gaacaagaag ttaaagatta cccatccaac 420

tgtggagatc aacctatgca aatgaatggg cctcaccacg acag 464

<210> 36178
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F5

<400> 36178

tccatgcgta tggccacacg ctttatcctc tttaacacca gatcatatcc acaggaacat 60

cgggaatctc ccaaagtgcc atgatgcgtt catcgtcagt ggcttacact gtgctcctat 120

gctctgattc ataacccaac tccatgtgct tcatgctata gcagctgagc tctggcatct 180

tgattccgtg tacttacagt cttgaatagc tctcggacta tctaccatcc tcatgccccc 240

gttaaacgct gtctcgggcg gtccttcgcc ttgcagcttg atca 284

<210> 36179
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F6

<400> 36179

accatttcca attttgaaga ttttccttct ataaggatat agattctttt atggcatcag 60

gcttcaagct ggttggctat gatccccacc agaagataga gatgaaaatg gcagtgtaat 120

ggtggcttgg ctggagcccc catcctatgg actcggtgga tgtaatcagt aggactggta 180

ctacataaaa attaaccgga caccgcacta gcttgttttt ggtgatggtg ctgaatgttc 240

agtgggagac gttttctctg atttatcaat tgcgatttgc gtattatggt cgcttaagtc 300

aactctacaa aatcggctcc cttttatctg gagccagttg attactcgat tgcgaatgtg 360

atggatgatc taagcatact ctgttgcaag ggcctactgg gtgtgtg 407

<210> 36180
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D8

<400> 36180

cccacgcgtt cgcggactcg tgtttcgcat ttcagtttga ggcgcttgga tcagctattg 60

gggtgcgttg ctcagtgctt gttggaggag tggatcgggt gcagcaagtg ttatccatcg 120

gaaaacgtcc acatattgta gttggaactc ctggccgtct tttggaccat ttgacagaga 180

ctaaaggttt tagccttaag aaaatcaagt atttggtatt ggatgaagct gataaattac 240

ttaatgtgga gtttgagaaa tcccttgatg acattctaag cgagatgcct aaagacagga 300

ggactttcct tttttcagcg actatgacca aaaaggtaaa taaactgcaa cgtgcttgtc 360

tcaggaatcc tgctaaggtt gaagtgtcct ccaaatattc tacagtagat tcacttaaac 420

aagagttcta ttttgttcct gcagatgaca aggat 455

<210> 36181
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C3

<400> 36181

gcgatcttgt tccctcattg tcatcttgaa agattcctcg tcttctgaca ctatcaaagg 60

ttataagcta tgggactgga agagcagaga gcaaccaagt atggaaaagc ctgttattgt 120

gtccaaagat gaaagaaaaa tacttcttta tgaccttacc ccatgcacag aatattcttt 180

cagagttata tcattcacag atgatggggt acttggccat tcagaatcta gatgccgtac 240

tgaaagtaag gagatatttg tcatgcgtgc accaaagaat gcagtgggag gaggggctac 300

acatgcgcaa aaaaaagaca ggaaccagtc ttgtaagtca actgggttca agatccgaga 360

tatttggaag aacttttagg aagctttata tgcaaaaagc tgttttgaac gattttctga 420

agatgtaca 429

<210> 36182
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C4

<400> 36182

cgtcgacagt gcacaaggcc acaaggattg acttgacctc tttcgctttg agatggtgta 60

ccgtggtaga ggggaggatg ctgggggcta cgtgttggag gacgatgact agtatgacca 120

ggatgcgcat gtggctcgcc ttgaggaaga gaacctgacc ctaaaggaga ggctcttctt 180

gatggagcaa gaggttggtg acatgaggcg ccgcctggag gctcttgagg caaaattttc 240

gctaggtggt ggtgttggag gtggcgagaa tgaagtggaa gaagctcctg ctcagaatga 300

tgcagagagg atccatactt ggccagagaa tagcagcgag gatgatgtat agatggttga 360

tgcgggaact gagaaaggcg gatcacaaac ttatggtgcc atgacttcag agaaatcttg 420

cggggatgat accaacaatt 440

<210> 36183
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C5

<400> 36183

tcgcccacgc gttcggtcat tagtttcttt gatttggatc agaacattca aggatgcatg 60

ttgagcgact ataaagtggt cgatgagcta caatagtaca tgaccagtgc tttcgaacac 120

atgaatgcca tgttcaattc tcaggactgc gaccttagga tgtgagcctg taccttagga 180

gctaacaggg ttgatcgtgc catccttttg ataggctggg aagcatgata tcattgaccg 240

agcattacag attctacagg tgcattcaat aattcttgtg caacaacgt 289

<210> 36184
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C6

<400> 36184

ataaaatgaa atttgaatct actttaacaa tttcttcgaa cactgaaaaa gaatttccat 60

ttgatccaaa caccaccttg taacctgtct atactaaatg caccaaagca agagtggatt 120

gaacgttgat atgttacata tgtatcgtac tcatctaaca tcttaagtaa ccagagggga 180

aaaagcaagt tgatctactg agatatattg aaacagagaa gcttatatat cacgatttag 240

tgttattatt caagtattcc atataccttt ggcatataaa atgaaacttc cagataattg 300

atttgctgta agaagagtga aaaaaaagat acaggttacc attctgatgt tatttcaagt 360

aggttaagat tataacctga aaaacttggt gcaaggcttc gatttgcttg atagaccagt 420

ttgaaatgac tccgtggttt gtgcataaaa ttaat 455

<210> 36185
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C7

<400> 36185

tcgactgcga ctgcctccaa gggtttcagg tcttccactc gctgggagga ggtacaggtt 60

cagggatggg caccctgctc atctccaaga tcagggagga gtacccggac cggatgatgt 120

tgacattctc tgtcttcccg tcgcccaagg tgtctgatac tgttgtggag ccctacaacg 180

ccacgctctc cgttcaccag ctcgttgaga acgcagacga gtgcatggtg ctcgacaacg 240

aggctctcta tgacatctgc ttccgcacgc tcaagcttgc cacaccaacc tttggtgatc 300

tcaaccacct tatctctgca accatgagtg gtgttacgtg ctgccttcgc ttccctggtc 360

agctgaattc tgacctccgg aagcttgcag tgaacctgat ccccttccca cgtctgcact 420

tcttcatggt tggatttgct ccactgacc 449

<210> 36186
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C8

<400> 36186

agttctagat cccgagtgct aacaatctgg tttcagaatc agacacactc gattcgagcg 60

ggatctgtcc atggcgtact cgtgcaacca cgtctgctat ggagcacgcc gaccaaccgc 120

cagatatgct tgatggaagc acgcctccgg cctctccgag aagttcaccg gacgctgcga 180

cagcgtcgag cggcgcgtgg aggtgcggtg cgactccctg cactcttcac agtgcggtgc 240

gagaagatcc aggagcaggt cgatgtcgct gcactctgca gtgacgaaca tggcattgcg 300

ttggagggga agcgcaccga cctcgagcaa tggcggcccg atctcgtcaa gcgggtcgag 360

gaggtggcgt gtgtcaacaa actcctcgag cgggaacgtc gagcggaatc cgtcgtcaag 420

cccaccatct tcggcactta cacggcggcg ccccc 455

<210> 36187
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C9

<400> 36187

cggacgcgtg ggctttggac atattccttt tgaccttgcc gtgaagtgct aaaaaggcaa 60

ggtcatggtg aatacaggga gatcactgaa agggaccttc ttggggaggg tactggccat 120

gaaaaagtca tttgccattt ttaccacccg agattttcac cgttgaagaa ccatggtaac 180

cctttaaaag gcctttgccc aactttatgg ggacacaaaa ttttaaaagc ttgactctaa 240

aaatgctaca tttttt 256

<210> 36188
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D1

<400> 36188

cgaaccacgc ctgcgcacga tgccgtgggc gccaacagcg gctggcttta tgacgttgac 60

cggcgttcga ggactgggac actaagagcg gcgctctgtg ggactactgc atggacttct 120

gcaagatccg agagatgcgc aagcagaaca agaaggagct cttccgcgcc agcctctgag 180

gctacgacga cctcttagac cacgcccacg tccactccca aaatccgcaa gccaacagcg 240

cccagcccaa gcttggacga ccctgccccg tcggcgaccg gcgaccgctc cacgcccgcg 300

accactcccc aacgggaggg aagaagttcc tgagctactt gcagtgctga atcaaggcct 360

gaagaggagc tgccgcaatg ctaagcctga gtgcctgcgc tttgtcgcag cagaacactt 420

gtgagcaatt a 431

<210> 36189
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D10

<400> 36189

agcaaagcaa tcagagccaa gcacccacct tcctcctttc tttccttcga ctcatcacgg 60

catgtcttgc tgcggcggca actgcgcgtg cacctccggc tgcaactgcg gcagcggatg 120

cggcggctgc aagatgttcc ctgacgtgga gaccgccggc gtcgccagcg tgaagcccac 180

ggtcctcgcc gcccccgcca ccaaggcgag cgccggcggg ttcga 225

<210> 36190
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D11

<400> 36190

cccacgcgtc cgcccacgcg tccgcggact cttgggcgga cgcgtggggt ctctagtggg 60

ggtagtagga tttgcggtgc gtgtgttgtc tagtgtgtgc tggaatagct gtggctgtgt 120

tcccgtcgtg tctgtggcct gtgtaggctg tctgtagtat actgggttgt tggatgtatg 180

cgttctggcc gcaagactga tgtcatgctg ttgctgctta ctacagtttg cagtctgaaa 240

taaaaacttg tttgatgagc actgt 265

<210> 36191
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D12

<400> 36191

cccacgcgtc cgggccagtc gacctctctt ttcgcgaaaa atggcggcgg cagcggaggg 60

tttggctgcc tacagggcgg tgctgcgggc ggcgcggcgg acgttcgcgg gcgaccagct 120

gatgctgaag gagtctgcgg tggagatccg gcgccgcttt gaggaccacc gtggtctaac 180

cccgggctcc gacgatgcag cgcgtgccct cgccgacgcc cgcgaggcgg cgcacttcat 240

cacccatatg atagtccagg ccacacgcgc acc 273

<210> 36192
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D2

<400> 36192

tcgcggacaa aaaaaaaaaa aaaaaaaaaa aaattataaa aaatttaaaa aaaaaaaaaa 60

aaaaaagaga aaaagaaaaa aattaaaaag aaaaaaaaaa aaaaaaaaaa aaaaaaacat 120

aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaaaa caataaacat aaataaaaaa 180

aaaaaaaata aatatgggat atctatgaaa tggctaatgt aaattacaaa cataatccaa 240

agacaattgt aatagaag 258

<210> 36193
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D3

<400> 36193

tcgccacgcg tccgcgatct agctcgctgc gttagcctgt ctcctggcgt gcgccgctct 60

ggtgccactg cgacggcaac agcacggcat ggcgccggca taggtcgcta ggaaaaacct 120

gcttttgtgt tcgggttcac gtcgtgtcct acgtggcgcg gcgggccccg cctagtaaag 180

gagcgtagga gcgtcgtttt gtgttgtggt cgaataaata atgtgtctgt gtgccgatcc 240

cgtgtcgggt tagtgggccc actgtcggtg ctgatgtggc ctgcctttac agcacatcgg 300

tggggctggg ccgtaaagct cctgtgtcgt ttaaatatat gtgtactctg tactgtacca 360

actagtatgt gtttcgagtg tgtagtaagc atatttgtgt cccatccatc tttcgaaact 420

ttctttttt aat 433

<210> 36194
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D4

<400> 36194

acgagcactt ccatcctgct gatcggtaag tgcttctcta attcttagta tctacgacct 60

tatctggact gtggccgtct cactggaggc taacgataac atggattcat gcaccgacga 120

tggtaatctg ggcgtaacct tttgctctgt acttcctatg atgatgtctt ctactggagc 180

ctgctttgac agatctgggc ttagccttaa aaacaataa 219

<210> 36195
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D5

<400> 36195

cccacgcgta cgtgcattgc tttctcaccg tgaacactta cagcgcgcgc ttcaaggtct 60

agtactgatt gcatgctcag gacgacagga tcatacggca gactcaacca ctcctgtgat 120

gtagaggcta atctcaaaca gcctggtgaa ccagaccgat cagatgaacg tggcccttag 180

ggactgtcca ttcatcaggg aggccaaacc caatggatca ttcactgtac tagatgaagt 240

ctcgtaggat aggtcatgga ggatctgact atgctgccaa tggtgcttaa aatgctgtca 300

gcacatgaaa gcccatt 317

<210> 36196
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D6

<400> 36196

gacaaccata aggttcgctg atttcaaaca ttagagatac agtgttcccc ttgtgatagg 60

aagcggtctc cttgtcctgc agcagctaag tggtgtcaat ggcattctat tttatgctgc 120

gagcatcttc aaagctgctg gtattacaaa cagtaatcta gcaacatttg gtttaggggc 180

tgttcaggtg attgctactg gagtgacaac ctggttgact gacaaagctg gtcgaaggct 240

tcttctcatt atttccacca caggaatggt cattactctt gttattgttt ctgtgtcatt 300

ttttgtgaag gacaacatag ctgctggttc gcacttatac tctgtaatga gtatgctttc 360

actggctgga cttgtggcat ttgtgattgc attttctctt ggcttgggag cgattccgtg 420

gatcattatg tctgagatcc tttcctgtaa ca 452

<210> 36197
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D7

<400> 36197

actgtctcta cctcttgcta cttgtgccgt ttcctcgtcc gggctcctcc gctcaagtcc 60

aggagtgcag tgcgctgtcc aagcgccgcc ccaccaggtg ctagcggtgc cacctccacc 120

tccaaggtaa acccacacct actacctgtg tgcttcgtaa ggcctatcta cacctgcagg 180

ctgcagccac cagcacaggg atatgtacca gcctgctcgt ttcagctgga acagtattct 240

ccagttttgg attggaacat gcagccacag ccaaaagtag ctgaagcgat tggagttgta 300

gcttttcggg gataatcaaa tgatatgaga gtggatgttg cggatcatgt ataagcttta 360

gactgccgac tgattcactt 380

<210> 36198
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-A10

<400> 36198

cccggactgg ctggtgatgg catgctcggt gtccgatctc caggacacct tcacggggag 60

caatctgcgc tgatatggtg agcgcttata taaggtggcc tactacagtc atgtaaaggc 120

tacaggccct caaggctaaa gacgcccaaa agatatccgc gcacactgaa gaggctgttg 180

gatcgctcta gcatgagccc gatgcacacg tggatcatac gagcgacact acgacttcga 240

ctgccagaac tgactctggc cttacgatat tgaagatctg atgcatgcat ctacgactag 300

agtgtagcct acaattgctt tcaaagacat gtatcactgt ct 342

<210> 36199
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-A11

<400> 36199

cacagactgg ctggagatgg catgctcggg ttccgatctc caggacaact gcacggagag 60

cgcacaccgc tgatatggtg gcgccttata aaaggtggcc tactacactc atgtaaggct 120

gacagccctc aaggcaggag ccgcccaaag ctaatccggg cacactgcag cggctgttgc 180

atcgctctac catgcgaccg atgcaaacct ggatcatccg agcgacacta cgacttcgac 240

tgccagatat gaccctgggc ttaccatatt gaatatc 277

<210> 36200
<211> 278
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-050-Q1-K1-A12

<400> 36200

cccacgcgtc cgagcgatcc cactcccgtt cagcagctga tcgctcactc ttgcagctgg 60

atcattcttt agctgctcta gctctagcct ctagccctag ctagtagcta gccactcggt 120

cgtgtagtca tcagccttct gatcgtcacc catggccact gccgaggtcc agaccccgac 180

cgtcgtggcg accgaggaag cgccggtggt ggagaccccg gcttccgccg ncgtcgtgcc 240

cgaggaggct tgccccgtcg ncgaggccaa ggtggaag 278

<210> 36201
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-A3

<400> 36201

cgaaccacgc ctgcgcagac gcgtgggttg atctgtagca tccttttgtc actgtttaat 60

tagatgatct gcagccgcgc aatcatgctg cacacaagga ctgcagtaat gaaaatcatg 120

cacatgatat gccaaatggc ttgggtttga atcattcttt caactggtcg accatgaact 180

ccaatagatc atcaaaaatc aagcccttat gggaggggag ctgtgacgat gttgacatgt 240

gtgagtttgc agacaaggat gaatatgcac cagtaggatc tagctataat cctatgtcag 300

aaccatttga taactgggaa aacaagtttg acacaagccc agagcaaagt tctcatgaac 360

caatggaaat tggtgaattg gtcatacatg cttaaagcag gataactgag aatgat 416

<210> 36202
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-A7

<400> 36202

gtttgagata taaaatctgc tttggatggt tgacacattc ttagtcgtga ttatatgaca 60

ggcaagttgt gggatctaat catggattca ggcccagttg caacttttca ggttcatgaa 120

tacttacgtc ctaagctttg tgatttatac gagaacgatt caatttttga caaatttgaa 180

tgctgtctca gcggtgatgg actccatgtt gcaactggtt cttatagtaa tttgtttcgt 240

gtttttggtt gttctcctga aagcgtggag gcatcaacgt tggaagccag cagaaatccc 300

atgaggcgac aggttgttga tccagcaagg cctgcacgga ctctgaccgg tgctgtgagg 360

agaggtggag aaaacacaat cgttgacgcc agcggaaact cttgcgatct ttcaacaaag 420

ctgttccatc ttgcgtggca cccaactgag aac 453

<210> 36203
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-A8

<400> 36203

cccacgcgtc cgcggacgcg tgttcggacg ctagggcagc gtccaacgcc atgcatcccg 60

aggtcgcaac gcaagcaaag aaagcccatg caggcgtgtg cacggcgcgg cggggcaacc 120

aagggtgggt gaacccgcag agaggggcag ctagcttcct tccttcccag gcgcgcggga 180

gaggttagcc gccgtataag tagacagcca gccagccatg tcgtcggtgt cgtcgtcgct 240

gtccaacttc ctgctctgct gcttctaccc gtcatccgcc ggccaccacc gcggcggctc 300

ctactactac agcagccacc cgacgagcgc cagcaccctg cactaccacg agggcacctt 360

cgacgggcgc agggccatgg gccggagcag caggccgctg tcgctgcaga ctgtggagct 420

gaatgtgcgc atgtgctgct cgggctgcta gcgcgtggt 459

<210> 36204
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B1

<400> 36204

cgcgtcttcc ttaccctacg ctactggtcc tcctggcccc acttccccgc aagagcggct 60

gccgcagctg cgaggtccgt accccacatc ggcgagcggc ggcggaaccg ccggaggcaa 120

aggcaagatg ttcgggcgcg cgccgaaaaa gagcgacatc accaagtact acgagatcct 180

cggggtgccc aagtcggcgt cccagaacga tctcaagaag gcctaccgca aggctgctat 240

aaagaaccac cccgacaagg ccggtgaccc cgaaaagttt aagga 285

<210> 36205
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B10

<400> 36205

gctgatgtca aatgctttag actgtaatgt ctctgatacg cacaccaact acatgaggga 60

gtccattagg agtgactgag gttacgaatt gatcataaag gatatcggat aactgggact 120

ccattaccga aagcacatca ccgcgtacgg tgactgcaac gagcgactgc ttacatgccg 180

ccacgagact ctcgacatca acacctgaag tctagtgcgt ctggaatcag ctctacgtct 240

ggtctgtacg acgatgacac cgagaaggaa ggctgatgct actt 284

<210> 36206
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B11

<400> 36206

gctgatatca gatgctgcac actctgactt ctctgacacg aacacctatt acatgacggc 60

gaacatcatc cttggctgat gtcacgaatt gatcataaga catttccaat aactcggact 120

ccattaccca aagcacatca ccgtgatcgc tgaatgcacc aagggaat 168

<210> 36207
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B12

<400> 36207

cccgaatcgg ggcctccacc atctccaatt tcaaccccac cccataccgt cgccgcctgc 60

gctagggttt tggagtgagg atcgccgatg tcgacggctc ccaggcgccc cttccgaggc 120

cgcggcgccc cgccccctgg caccggctac gtccgccgcg gacccgcccc tgccccaggc 180

cccgccgacg gcgccaagac cctgcgcaag cccgtcttca ccaccgtcga ccagctgcgc 240

ccccagacgc acggccacac cctcacgcgc cgcgtcatct tcggccggac cgtccttgac 300

aagcccttca cgcacatcgg ccggacccgc gtcgc 335

<210> 36208
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B2

<400> 36208

tcggtcctgc gccgtcggcc gctgacgagg actggaaccg tttgtcggtc ttgaagtcct 60

gcgcgatctc cggcaccagc cgctggaagg gcagcttccg gatgagcagc tccgtgctct 120

tctggtactt gcggatctcg cggagcgcga cggtgccggg gcgaaacctg tgcggcttct 180

tcacgccgcc ggtggccggg gccgactttc gcgccgcctt ggtggacagc tgcttccgcg 240

gcgccttgcc gacggtcgac ttcctcgccg tctgcttcgt gcgcgccatc ggagagagct 300

gcgtgaggcg tacctggggg gtctcttcga ggacaccaac ctctgcgcca tccatgccaa 360

gagggtcacc atcatgccta aggacattca gctcgcgcgc cgcatcatgg gcgagagggc 420

ctga 424

<210> 36209
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B3

<400> 36209

gcgggatgtt cgacctatat tctgggccaa cagttcaaag agttatctta aaaggacatt 60

agggggggat caggatcccc atggacggtg gggtgattct cggaacccat catatggagc 120

acttactgac caccagttca caagaccacg aggccgtggt aagaagctcc aagaggaatg 180

ggctgttcca ctgaaatctg tggaggacat tagtgagcgc ttcacaaact tctgtcaagg 240

gaaactcaca agcagcccat ggtcagaatt ggacggtctt caaccagaga caaagattat 300

cgatgaccag ttggtgaata ttaaccagaa gggtgtcctt acaattaaca gccaacctgc 360

tgtaaatgga gagaaatacg actcgcctac tgatggttgg ggtggtcctg gaggcta 417

<210> 36210
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B4

<400> 36210

tcgacccacg cgtacgcgga cgcgtgggcg gactcttggg acgcgtttct aggaggtttc 60

agtttgcaca accctgcgga tacctggtgc aaggatgcat ataacctgct tcagaacttg 120

gacataaggt gacttctgcg catggatatt ctattagata caatcaacct ttccaaaaaa 180

gtgttcagag catgttaaga gaatcaacct tacatccaga aaggctatgc tgacaagaaa 240

tgttatgaaa agatcccacc gtctatcacg gtgaaccttt ctgaaagctg atctgagaca 300

aactcgatat gcgggcaaca aggaccggag gctctttctt ccatgaccac gccatggtgt 360

atgcgataaa tg 372

<210> 36211
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B6

<400> 36211

gccacgctcg ccacgcgttg ccaccttcgc caccgtcgcc acgcgtcgtc gaccttcgtt 60

tgagcttgat gacacgtgcg attttgacac catagacctc atatctacat attagaagcc 120

ccgtcgactt acgggagcgt cccgatccgg cgttgacacg tgtgatcgca accctaatcg 180

gatgtaatgc attgtagcag cgtggcctga gtcgtgaccg tgtcttttct cgcgcttcct 240

tcaacgcctc tcgctaaaga tccaccgatt tttgctggga gtcgagagcg tgataccggg 300

acgacgacca 310

<210> 36212
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B7

<400> 36212

tctgatcgtg atcgcacgaa gatcaaaaat tcctaaacag gtgtgaagga tgaggtcact 60

ggcaggcgaa acatgcgcat aaagtattgc attcttggac taacctcaca agcagcaaga 120

gagctatcat tctctggcga tgatcgtggt actgtgaaga ctgtagtcca atacttcatg 180

gagacttatg gatttagcat tcagcacacc actttaccgt gcttgcaagt gggcaatcaa 240

cagagaccaa attatgtgcc tatggaggtt tgcacgatag ctgaaggaca gcgttactca 300

aagcgactca ttgagaaaca gatcaccgct ctactgaaag tgacctgtca gcgacatcaa 360

gagcgtgagc tggacatttt acagactgtg catcacaatg cgtactatga ggacccgtat 420

gcacaggaat taggtctaag aattgatgat acgcc 455

<210> 36213
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-050-Q1-K1-B8

<400> 36213

cccacgcgtt cgccacgcgt ttgtcgattt cgncgccaga ccgctccctt ccccgcggcg 60

ggcccaagcc aggccaacag ttttgaggtg gtaatggcgg accagctacc aacccactgt 120

ccttcataag ctaggtggcc agttccacct gagctccagc ttctctgaag gtgtacgggc 180

ccgtaacatc tgcctttctt tctcatctta tgaaaggaga tttgccacga ggaactacat 240

gacccatagc ctttggggcc cttcaatgtc tgttagcggt ggcatcaatg ttccagtgat 300

gccgactccg ctttttgcca atgctccagc cgagaaaggt ggcaaaaact tcatgattga 360

tttcatgatg ggcggtgttt cagctgctgt ttcgaagact gcagctgctc ccattgaacg 420

agtgaagctg cttattcaga atc 443

<210> 36214
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B9

<400> 36214

gaagccgggc tacaactaca agcagcacgt tgcatacggg gagaccgaag gtgcagggga 60

cgggtacggc gccggcggcg tgaagaagca agcaggctac agctacgcgc aagaggcgtc 120

cgaagagagc tacggcggcg ctcagtctca ccacggtggt gccggcgccg tcgcgcagac 180

gtacgcctac gaccagcagc aggcctacaa gcacaaggac ccagcaaggg cggtgtacgg 240

tgctcgctac ggtggtgg 258

<210> 36215
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-A1

<400> 36215

tcgggggagc aacaagatct ccattctcag cgcagtagtc ggtctcccta accagggcac 60

ccactgcgag acggggaacg ttagagtgct cggtccggtc acgctgtccg gcctcaacga 120

ggggaagcgg gacctcagcg accagaagtg gacctaccag atcggccttc acggcgagtc 180

gctgggcgtg cagtccgtcg ccggtagctc gtccgtcgag tggggcagcg cggcagggaa 240

gcaacccttg acatggtaca aggcctactt tagcgcgccg tccggcgacg cgccggtggc 300

cctggacatg ggcagcatgg gcaagggcca ggcgtgggtg aaccggcgtc acatcgggcg 360

gtactggtcg taca 374

<210> 36216
<211> 320
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-049-Q1-K1-G10

<400> 36216

gcgacggagg aacgcctggg cggccgtntt gttgggctcc accgcggtct ggttcggcgg 60

cgatcttgtg ggatacagct tcctctacgt actcttgaaa actagcagag caagcaagcc 120

agccacttta cctagctagt gttccggctg attccactgg cgacgattcg agtttgagaa 180

gcacgtgggg gcggagtcga agaaccagaa cggtaacatt ctnctcacca acgacaagtt 240

gctctacgac ctgtttcacg agctcagaaa ttggcccccc tgtgcggagg agtttcgggc 300

gaacgccggg gtactcatga 320

<210> 36217
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G11

<400> 36217

gcctcacgca gacggacttg atcgcgcttt ttttcgcgca cacgatcggg gtgacgcagt 60

gggacaagtt cgtgcggcgg atctacacgt tcaagcagcg gctggcgtgg aacccgccga 120

tgaacctgga cttactgcgc tcgctgcggc gggtgtgccc cctcagctac agccccacgg 180

cgttcgccat gctggacgtc accacgccca gggtcttcga caacgcctac ttcaacaacc 240

tgcgctacaa caagggcctg ctcgcctccg accaggtgct cttcaccgac cgccgctccc 300

gaccca 306

<210> 36218
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G12

<400> 36218

aggaagaaga ggaagcgtgc tcaagcaccg tcgtgcgagc accagcttct gctgggagcg 60

cttgcgtgct gatgctgttc tgtgatacgg cgctatcctc gccgagctta ttcctcgact 120

tccaacctat tcaccaccgc tgtcagaacc cttcttgtga caaaaagtta agcgagcgtc 180

ttcttgacct tgcaagactt tttgtccgga gataatctcc tacgaattac cctcttgcat 240

cttgcgacta cctctcctcg tctcgcgcct gtcgatcctt ccatccctct cgtccccgtc 300

tatccctctt gagcttggaa cactctcgca gctagtagta gctatatatt attggtttcc 360

tttcacctac tttcgcatga actactctgc tatttgctgg aataaagc 408

<210> 36219
<211> 358
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G3

<400> 36219

cgacacctgg tctgactctt cggattacct atacaattac acaaaaaaca aaactaaaaa 60

gggcacgggg caaataaaaa aaggaaccag gcaacaaaac cataaaggaa acccttttatg 120

aagaccaaac taacaatcac ctccatatca agctctacaa ctaatatacg tataccaaca 180

tttaaacaaa tggccctgct ataacaacca ccttacttgc aaacccttga cgtaacctaa 240

attacaccac tagtcatgaa aagctcttct aaaccatgac ctaaacctga aaaggtccta 300

ctacacgtac tttaccaaca ggtgcgcact ctaataaagc aactacacca ccccttac 358

<210> 36220
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G4

<400> 36220

cggacgcgtg ggcgcgaagt caaatctcac ttcaccagtg gctgccttct ccgctccgcg 60

cggcgcctgc cccaaagctt cagtggctgc tgcgaccctt ctgttctccg ctcttggtct 120

tgggtgatcg ccggcggtac ttgtagcggg gtatttatct gagggaagaa gaaactatac 180

aattcatcat gtcaggaggg tcgtctgaat cttccccgtt atctggacaa aatagcctta 240

gttctctatc aatttccaag gacaatgaac tatcttcaga gtctggctgc ttgtccattg 300

gtgtactaag cgcttctgga gaccttgctt agaagaaaac tttccca 347

<210> 36221
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G5

<400> 36221

cggacgcgtg ggaaagggcc ggacccgaaa ttgcggtaca tgtggagagt gggtgctcgc 60

cgtacaaaca cccgttgtaa ggagctaaac tcagaacctg ttattcctga gggattacct 120

gagtgggaag agatgatgga ttcctggggt tctaaaatga tttctgcaat tgaggttgtt 180

gctgagatgg ctgcaatagg ctttggccta tcgaaggatg catttacttc tttgatgaaa 240

gagggaccac atctcctcgc accaactgga agtgacctgc agcgtcatgg ttctgagggc 300

accgtttttg ctggattcca ctatgatctt aatttcttga cgatacatgg ccgaagtaga 360

ttcccaggcc ttaacatctg gttaaggaat ggtaaaaaga tggaggtgaa agtccctgtt 420

ggttgccttc taattcagtc tggaaaa 447

<210> 36222
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G6

<400> 36222

ggacgcgatg aaaatttcat ctcaaatttg cgaacatgtc cagagcgcgg ggctacgggt 60

ccaacacccg agtggatgag ctaaactcag aacctgctat tcctgaggta ttacctgctc 120

cggaagagat catggattac tgtagatcta aaatgataac a 161

<210> 36223
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G8

<400> 36223

gcggcaagcc agctcgcgag ctggcctgtg gctttatcca acaacaattt cttatataga 60

atcagagtta gcatataata gtagtactga gtcgataatt aatttatgct atttgagatt 120

actatacaaa attgatatat tatctatatt atattagtga tatattaatt ctactaattt 180

aaaatatttt taagagttta tattataatt tagagagcag atgtacattt atgggtaggc 240

<210> 36224
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G9

<400> 36224

gttgaggaac ccgaagtgat cgcccaacct gtcaccttgc agcagttatg ccctttctgt 60

gggttcacgg aatccgtgcc tctgttgaaa aaactgtagc ttatgtgtgt cttggcggat 120

tagctggtta tcttgaactg acgttcatgt gacatggcaa tggcacatga acatacgttt 180

catgagtttg attgttaatt ggcgcttgca gcactttgat ccctg 225

<210> 36225
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-049-Q1-K1-H10

<400> 36225

cccacgcgtc cgttttttt ctttatgatt ccttcctaat atgtatgatg agttagttgt 60

tgtctcattc tagttttgtc ttaggcaaaa aaaaaaaaaa tccatgatct tgttggcatg 120

aagtgtttga agttgtgact aaagctatga ctagttggag tcttgagatg tttatttct 180

atatgcccat acacttacat gactaggaag ttttttttc tctagtatat ttaattcttc 240

tgcactaggg caacaattat catatattcg gaattcatgg ttcctttgta ttttagttta 300

tgttgttgca catcagtttt ctgttcatat taaattatgg gttcacatat ataagctgca 360

tgtttggtcg aattgttaat tttgcttgtc aaggaggatg cacacctaga ttagacaang 420

tggttcttat gcatgtagtc agt 443

<210> 36226
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-H12

<400> 36226

gacttgccgg accgacgcgt ccgaagcgcc tgacactgtc actggagata ttttctttgt 60

tctccagcag aaggagcatc cgaaggtcaa gagaaagggc gatgacctct tctacgagca 120

caccctgacc ttgactgaat ctctgtgtgg cttccagttt gttgtgactc acttggataa 180

caggcagctg ctgatcaaat caaatccggg cgaagttgtg aagcctgatt ctttcaaggc 240

gatcaacgac gaaggcatgc ccatgtacca gaggccgttc atgaagggca agctgtacat 300

ccacttctcg gtggagttcc cggactcgct gagcccggag cagtgcaagg ccctggaggc 360

tgtgctcccg cccaagccgg tgtcgcagta caccgacatg gagctggacg agtgcgagga 420

gacgatgccc tatgacgtga acatcgaagc gga 453

<210> 36227
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-H2

<400> 36227

ggtcgaccca cccgtgcgga gcgacaagaa gaacattgcc accctctttt cagagtttga 60

caagattaac aaaaagcttg gctttgggaa ggaggatctt ggcaagatcg aagaagagct 120

tgaattggaa attgccaaaa gtgagctgac tgaacttaat aaggaatgcg ttgaagcaat 180

ggagactcaa ctcaagaggg aggagtttca agatgaggag atgcctgatg tcatgaaatt 240

ggacatcata aacttactgt aggcctgatc gacgataaat ctttaaggcc aaagcaccta 300

tggctttgcg ttcaagttga acggtgcttc acacctatga acgcctgttc tttccttttt 360

tgaata 366

<210> 36228
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-049-Q1-K1-H3

<400> 36228

cccacgcgtc cggcaggagg cgctggacca gtatcccctc gcccaccatg aacttcaccc 60

aaggcctccg gtccttccag aacaagagcc tgaacctcgc cgacctcgtc tggctctcag 120

gggctcacac gatcggcatc tcccaatgca actccttcag cgagcgcctg tacaacttca 180

cggggcgcgg cgggcccgac gacgcggacc cgtcgctgga cccgctgtac gccgcgaagt 240

tgcggctcaa gtgcaagacg ctgacggaca acacgacgat cgtggagatg gaccccggca 300

gcttccgcac cttcgacctg agctactacc gcggcgtgct caagcggcgg ggcctgttcc 360

agtccgacgc cgcgctcatc accgacgccg ncttcaaggc cgacatcctc agcgtgatca 420

acgcg 425

<210> 36229
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-H5

<400> 36229

cggacgcgtg ggctgagctg ctcatccgca ttctcccctt ccagcgcctc gtccgcgaga 60

tggcgcagga cttcaagact gatctgaggt tccagtcctc cgccgtcgcg gcgctgcagg 120

aggccgccga ggcgtacctg gtgggtctct tcgaggacac caacctttgc gccatccacg 180

ccaagcgcgt cactatcatg cccaaggaca tccagctcgc gcggcgcatc aggggcgaga 240

gggcttgagc gcccgtcgtg ctgctcgtcg ttgtagtgtt actagaagta gatggtggct 300

ttcgtttcgt ggcttcctta tcctgtagga gtaatgttct agatgtcttg gcttcagtgc 360

aatggactgt gtttgctcat ttctgaaatt tatcaatgga cttgttcttg c 411

<210> 36230
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-H8

<400> 36230

cccacgcgtc cggaatcctt ctttatggcc ttcatcaact gcaccatcga ggagagcctt 60

ggtcggtacc gcggcgtcac agcggctgcc aagaaacacg ggctaagcat ccgggggtac 120

gtgtcatgtg tgattgcttg ccccgttgga ggcgcaaccg atccggcgaa ggtggcgtac 180

gtagctaagg agctgtatac catgggctgc tcggagatct cgctcggcga cacgaccggt 240

gtcgggacac caggtagcgt ggttgctatg cttcaagctg tcatgtcgtt tgtcccggtg 300

gacaagattg ccgttcattt ccacgatacg tacgggcagg cccttgccaa cattctcgtc 360

tcccttcaaa tggggatcaa 380

<210> 36231
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-H9

<400> 36231

gacccacgcg tccgcagaag gagaacatca ttaacgccgc cttttctttc ggcaacatca 60

cgttgagcgt cacgaagagc atcccggaga ccggggaggt catcggcgtc ttcgagagcg 120

tgcagccgtc cgacaccgac ctcggggcca aggcgcccaa ggatgtcaag atccaggggg 180

tctggtacgc tcagctcgag tgattcgagt gtctaactgc taggtgtccg accgtcgtca 240

tggatcttgg gaaggtgtat gtataccatg gaaaactttg gagagcagag gaggaatcgt 300

gtatgtaatg tacttgttaa tgcaaattcg ggctgtcgct tttttactc 349

<210> 36232
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F9

<400> 36232

cccacgcgtc cggaacatcg tcttcatcgt cggcgcggac gacgtgcgcg gccagatccc 60

gtcggcggtg ggcgggctga cggagctcat gtcgctgacg ctgttccggc tgccggggct 120

gacgggcgcc atcccgccct gcctcacggc gctgtcgaac ctccagttcc tcaccgtctc 180

ccacaccaac gtgtccggcg ccatcccgga gtcgctggcg cggctgcgcg gcctcgactc 240

cgtggacctc tccagcaacc ggctgacggg cggcatcccg gcggcgttc 289

<210> 36233
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E10

<400> 36233

gccccatccc gccatccgcc cgcgcggcgt gcgcagagcc gagccgagct gccggaacgc 60

aggcggcggc agcgggaggc ctccgaaacg cagcggaaca cctgaggagg cggcttcccg 120

ccgaatgctc taggaggagg cgcggcgccg gcggagatgg ggtccaagta cacgcgcggg 180

tgctgcggct ggctgatcgt ggcgctgatt gcggcgctgg tggccacggc cgcgatgttc 240

gccatcatga agcgcaagcc cggggcccgt cacatcaagc ccgtgccggt gccggggccg 300

gcgggggcca tcgac 315

<210> 36234
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E11

<400> 36234

ctcttcttca cctcactaac accagctagt aactctttct ctcctgcaat aatggccggt 60

cgctcctcct cctcccagcc gcagctggtc gcggcggcgg cggtcctggc agcggcgctg 120

ctgctgctgg cggcgggggc cgggacggcg tcggcggcgg tgagctgcgg cgaggtgacg 180

tcgtcggtgg cgccgtgcct cgggtacgcg atgggcagcg cggcgtcgcc ctccgcggcg 240

tgctgcagcg gggtgcgctc gctcaacagc cgcgcgtcgt cggcggcgga ccggcaggcc 300

acctgcaact gcctcaagag catgacgggc cggctcggcg gcggcgtcag ca 352

<210> 36235
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-049-Q1-K1-E2

<400> 36235

cccacgcgtc cgatcatacc tgatgaactt ttggtcttat tttcaaatgg ccaagactac 60

cggttggcat taaaatggaa caagcatagt gtcagggcct aaggaggccc acggaggggc 120

tgcgacagca gcagccatgg gccctccaag ggggattaga taaggatagt tagagataag 180

attagaagat tagttgagat tatttaggag attagttgag attatctagg aaggttatca 240

gttagtagtt tgttgagagt ttttaggaga gttttaagga gataaggatc agtagctaga 300

taggggcggc caatcggcct atttatgtaa tcaatggatg agaaataaag caagcaagaa 360

cggggaagac caatggggca tctnctgaga gaacgagcat attcatttat attgctctgg 420

aagtatttaa ctagtttac 439

<210> 36236
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E5

<400> 36236

tcgcccacgc gtccgcctgg catccgttta gagtttgttc cgtccaggca accaaaaggg 60

aaggggggccc gtcgcgcaga ggaagaggag agcagaggag gatggctcgt acgaagcaga 120

ccgcccgcaa gtccacggga ggcaaggccc cccgcaagca gctcgccacc aaggcggcga 180

ggaagtcggc gccgacgacc ggcggcgtga agaagcccca caggtacagg cccggaaccg 240

tggcgctgcg cgagatccgc aagtaccaga agagcacgga gctgctgatc cgcaagctgc 300

ccttccagcg cctggtgcgc gagatcgcgc aggacttcaa gacagacctc cgattccaga 360

gccacgccgt gctggcgctc catgaagccg ccgaggccta cctcgtccgg tctcttcgag 420

gacaccaacc tctgcgccat ccacgct 447

<210> 36237
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E6

<400> 36237

gaggaaatga agaaaaacgc tcaagctgct ttagttactg ctcattacta cgaggatgag 60

agtgctccta ctggcacatg tgctgtatgt gttgttggtg gtgaaaggtc attgattgca 120

aatctgtcag cggcaaactg ttacaaatct gagcatctaa agagaccaga gaactgggca 180

ctagttgaaa aggcaaaata catctacatt gctggatttt tccttacagt gtcgcctgat 240

tctatccagc tagtcgctga gcatgctgca gcaaataaca aggtgttcct gatgaacctc 300

tctgctccct tcatttgtga gttcttccgt gatgcccaag agaaagtcct cccgtatgct 360

gactacatct tcggcaacga aactgaggca aagatctttg ccaaagtcag aggatgggag 420

actgagaata ttgaggagat tgctttg 447

<210> 36238
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E7

<400> 36238

cccacgcgtc cgcggacgcg tgggcaaatt ttgtaaaacg gggttttacc tagccctact 60

tgtggtcaat tctcgagcgt attagcagta gacagtagta gtagtctggg tcggaaccca 120

gtcaagctca gcgcctgggt tgcgtttgga ctccagtgca gaattgcgta gaggatttag 180

aggaagagcg gagctgagct gagcgaggca ggagtaaagg acaacctgta tgtcactgtt 240

agtgggccca gtgccacgtg aaagtcaggc actgttggtg cccattgacg gccggacttg 300

ccagcgacgc ggatgggcga cgtgaacgtg tctggccgag cagtgcgctc gctccctccc 360

cccaatgggc catggcctct tccgcgaaag cgtgctcccc tgtaagtatc tgatttggat 420

gctagccaaa gctgctggat gatta 445

<210> 36239
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E8

<400> 36239

ccggcgggaa attggaactg tggtaaaatg ttagtgagga tttgttacac gagtcttcac 60

atgatataag ttctccgact atggattgcg acaataattc aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataca aacacaagca tacaacaaaa 180

taataataaa taatagagta acctaaatta aattaactgg tccgcagatt cacaactttc 240

actactggga aacccc 256

<210> 36240
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F10

<400> 36240

cccacgcgtc cggatcttcc cagccatctt cacatccttg aagagcacgg atgctagcga 60

tggttccgag aacgcgctga tggatgagct gcaggcactg catgagcatc tgaaagctca 120

tggcccctac atcaacggct agaacgcatc accagctgat cttagcatgg tgacaaagct 180

cttcacacct ccaggtcgga ctggagcatg acaaaggctg gcagatgccc gaacatctaa 240

ccaacgtcca cgcctacacc aaggctgctt tcagccgtga atctgttgtc aagactaatg 300

catacgatga gcacgtgatt gcaggatggg c 331

<210> 36241
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F11

<400> 36241

cccacgcgtc cggaggatgc gagggagctt atcgcggcgc catggacgac gaggagcacg 60

agggttacgg ccaggaaatg ccggaggacg gcgacatgga cggcgctgac gttgatatgg 120

ctgcctccgg cgatgacgcg gcgaagctgc aggagctcga cgagatgaag cgcacgctga 180

aggagatgga cgaggaagcc gccgtcctgc gcgatatgca ggccatggtc gccaaggaga 240

tgcaaggacg cgaccctagc gcatctacag ctgacgcaaa agaacaggtg gatgccccgg 300

ctgtgcatgt tggaaatgtg gattatgct 329

<210> 36242
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F12

<400> 36242

cccacgcgtc cggcacggca agagagagtg ttttttcgtt cgatctgctg ccggagtgcg 60

aagaggacga ggaagaggag cgccggaatt gtaaagatgt tcctggtgga ctggttctat 120

ggggtgctgg catcgcttgg gctgtggcag aaggaggcta agatcctctt ccttggcctc 180

tacaacgccg gcaagaccac ccttctccac atgctgaagg acgagcggct cgtacagcac 240

cagtcgacgc aataccccac gtgagaagag ttgagcatcg ggaggatcaa g 291

<210> 36243
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F2

<400> 36243

cgccaagcgg tgaagcatca tcggtcatgg tggagactta gccagcgcca gaggccatgc 60

tgcgcttgtc caatgccgcg ctggtcctcg cctccctacg ccggccacgc gcgccgacgc 120

cgacacagga tcgccgccgg acctcctact ctccctcctc ggccgccgca gcggagctcg 180

cgcggctccg gtccgagggg ctccttcgca gcgccgagat cgcagcggcg cggcgcgagg 240

ccgctgccca cgcgcgggtc gacggctccg agctgctcct cgtcctcgcc gtggcgcccg 300

gcgtcctact gcttcttctc ctcgggcttc tctaagccag cggcggcctg ggtagcgcgg 360

tggctggagt ctggggcccg ctt 383

<210> 36244
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F5

<400> 36244

cccacgcgtc cgcccacgcg tccgatccac atgaccacca gaccagagcc acagcaccag 60

cggcagccac ccaaagccca ggaccgcctc accgccaatg gccgaccgcg tctaccccgc 120

cgcgaagccg aacccgcctc caggcgcggc gggcaacagc aacggcgcgc aggcgtcgtc 180

gttccctgcg cccaagtcgc agatgtacca gcggcccatc taccgtccgc aggcccccgc 240

gaagcggcag cgcgggcggt cgtgccggtg cagcttgtgc tgctgcttct gctgggcgct 300

ggtggtggtg atcctgctgg cgttcgtggg cgccgtgtgc ggcggcgtct tctacctgct 360

gtaccggccg cagcggccgt cgttcagcgt gtcgtcggtg cggctggcgt cgctgaacct 420

gacgtcgtcg gcgacggcgc ccgtgct 447

<210> 36245
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F6

<400> 36245

cccacgcgtc cggatagatt acttatacct ttaaccttca gaatacaatc ataggagcac 60

tggaaaatta tcggaggaca tgatatcatc acatgacatg aaacgactag aggcgtattc 120

aaacaattca aaccgattat ccatgtgatg ctggatctag tacccatgct tgcacatcag 180

tatttttac acaggcttcc aatgtgatta catggtgcat atacagttcg tatgttctgt 240

ctaagcctgc acgacaacga cataggcact gcgaatggag atctcgctat agaaagggca 300

catggtctat caaacttcat acagacaatg aagaaactgc atggttacct tcataacatt 360

ggaaggaaaa aaatcggaac aaccttacct cgactgaaat acattgaaat gccctctttt 420

agcaaatcga tggatgagga cc 442

<210> 36246
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F7

<400> 36246

atcttgtcct ccaccaagaa cgcccagctc tttgacggcc aagttcccgt gccggcgcag 60

cgggtaccgt cgaatccggt gctgaattcc gaggtctcac cggcgacagt gagccaaggt 120

cctccagacc atcctcccgg cgctcgtccg tcgccgcaca gcggcgtggc caacggcaag 180

caaacgccac ggaatcccgt cgctacctcg ccgagccagg atgaccggtc cggggcaggg 240

aaagagaacc agtcgtgcag caacacgccg agcacgagca gccgccagtc gccgtcgcag 300

cagaagacgc ccaagtccag ggcgacgccg ccgcctgaca ggcgcagggt tactcctgct 360

cagacaagcc ctgctattgc gcctgaccgt aaacggcctg ccgacgctgc tgctggcact 420

ggcagcaact ctgacaaagt gacgacct 448

<210> 36247
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F8

<400> 36247

gaacaaacca ttgttggacg cgttcccctc ctgcacgcaa cctcatctcg tcctgcagat 60

cctggatggc cgtcctcctt gataccttgc ctcgcgagtg ctctcggtga gctactttgt 120

tttgatttat caggaaatcc gtttgcttca tgttatgcag gctcagatct gattgctgga 180

ttcggcatct tacgggcttg aatagagcta ggactgggag aaaacaacaa acccgcgttg 240

gatcctgtat cggttagtcc ttgccttcaa ggttcatgtt gttttgtttt ggtggtcgag 300

catcgcatgt tctgcttctg gttccagatc tggagaaatt tctaagtcgt cgtcgtcgtc 360

gtcgttcggt tcggagcgga tctgaggcga cgatggctgg aagcggcggg atctcttggt 420

ctgcaatcct gcttcacctc gatggatgat g 451

<210> 36248
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E1

<400> 36248

gtcgaccacc cgtccggacc gagcgaattg accacagctt ctcaccttcg ctattttcga 60

tggcacccaa ggcggacggg aagcgggctg ctaataaggc ggcagaggat gagcccgcga 120

cagagaaggc ggataatgct ccggcgggga agaagcccaa ggccgagaag cgcctcccgg 180

cgggcaagtt ctccggtaag gagggcggct agggcaagaa ggggaaaaag aaagcgaaga 240

agtccgtgga gacctacaag atctacatct ttaaggtgct gaagcacgtg caccccgaca 300

tcggtatctt gttcaagggc atgttcatca tgaactcctt catcaacgac attt 354

<210> 36249
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C1

<400> 36249

tgcttccatc gaatgacgct gactgactat ctggacgggt gtgatcgaaa tgcgcaaaac 60

taaaatctga gcaccgctca ctgttgaggc taaccaggac gtaaccagaa tggagatctt 120

tatatcgctt gcgcgcttat cgtagccata ctgtgactgc tgtgcagctt cggagaacgc 180

tagcaacatg aacatgcctc ttggcttggt gcaccaacct gtcattccat caacacgcag 240

catccaatga gactagagaa aaccctgtaa cattttacca agtgctaata gcacgagctc 300

atgtaacttc tgcagcgact atcatcccca atattccagt gcattgcctg actttactga 360

gacatctta 369

<210> 36250
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C10

<400> 36250

atgcgcttca gcacccatgt caaggacgat gatggcaacc ctgcgttcgc cctggtcagc 60

aaggccactg ggctcgccat caagcactcc ctcggccagt cccacccggt gaagctggtg 120

ccgttcaacc cggagtacca ggacgagtcg gtgctgtgga cggagagcgg cgacgtgggc 180

aagggcttcc gctgcatccg catggtgaac aacatccgcc tcaacttcga cgccttccac 240

ggcgacaagg gccacggcgg cgtgcacgac ggcaccaccg tggtgctgtg ggagtgggcc 300

aagggcgaca accagagctg gaagatcctg gcctggggcg acgaggccta cgccgcggga 360

ggcatcagcg gcgtcaacgc gcccc 385

<210> 36251
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C11

<400> 36251

cccacgcgtc cggctgaaga tgtccaggct ctcctgcgcc atgaacctca cctccgacgg 60

gaccggcgcg caccacggct ggtactgcaa ctacctcgag gccacggtca cggggcccca 120

cctcgggtgc gcgcagcagc tcttcaccgt cgagcagtgg ctcgccaccg acgcgtcgcc 180

ctaccgcctg tacgcggtcg tcgacaagtg caagacgaag cggcaggagc cgcgacgctc 240

gccggccggc gaggccgagg ccaccgtgac cgtgctctag gtacgaccag tagtaaatca 300

tcgacagagg ctagctcctg cctctgctgt gtgtaattac tgtatgtgag tgaccgatc 359

<210> 36252
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C12

<400> 36252

cccacgcgtc cgcccactcg tccgcccact cgttcggctt cgggctctac gtccccaggg 60

tgtgtgccac acccacactg agcgatatac gaaaaccgac ggcgcctggc ccctaggacc 120

tagtcacaga cccttgatct ttcttcgacg cgcccccggg catggcgaac cgcagtgttg 180

ccatgggctt ggccctcgcg ttcgtggcca tgaccgcgct ctgttgcgcg ccgggcgccg 240

cggagttgcc ccggctggag cactcggcca ggagcgaacg atcgctgaag ctgctcgtcg 300

tcggggactt gggacgcagg gggactcaca accagtcccc gggtcgcgac ccgatgggaa 360

gggtccggga gaagctcgat atcgactttg gtatatc 397

<210> 36253
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C2

<400> 36253

gttcgtgggc gagcacacta cgcatgcgtt tttgtttttc gacaaggcag aggacgcgag 60

cggggtgggg gtgtcgttcc ggggcacgga gcccttcaac atgcgggact ggtccacgga 120

cgtaaacctg tcgtggctgg gcatgggcga gctgggccac gtccacgtcg gcttcctcaa 180

ggcgctgggc ctgcaggagg aggacggcaa ggacgccacg cgggcgttcc ccaaggccgt 240

ccccaacgcc gtcccgggca agccgctggc ctactacgcg ctgcgcgagg aggtccagaa 300

gcagctgcag aagcacccga acgccaacgt cgtggtcacc ggccacagcc tcggcgccgc 360

gctggcgacc atcttcccgg cgctgctggc gttccac 397

<210> 36254
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C3

<400> 36254

cagaggacat cttggatttt aacactgaat ttactcttta atcacttata taattgatgg 60

cgggtaacgg agtagttgaa taggttagac catgtatgat tgatctattc acttcgatga 120

cgatccttca cccaacttgt atggctacct acgcctgctt actgcttaca cagggctagc 180

gctcatgctg gagctcactg agaccagggc tggatgcttt ttcacaaatg gatgggctgc 240

ggatgccttt cagttgtagc acaagtcttc cacctgaact gacgattttc tgacatgata 300

cgcgtttgat ctcagctgct gcttcatgcg agattactac tatttatgtg tatctc 356

<210> 36255
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C6

<400> 36255

gacagactgg ggaaaagata ttgtctggac taatggatca gttacagaag atatgctaac 60

tgatttcaag atgcatgtgt catggttggc ggtcaattta ctgcatacct aaacgggttg 120

cattcaaagg ttctgcacct ctgaatcttt cagatcgtct tcaccaggtg cttcggtggg 180

ctcttgggtc tattgagatc ttcttcagca atcattgccc tctttggtat gggtatggt 239

<210> 36256
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C7

<400> 36256

cccacgcgtc cggtgagttt ccggcaaggg ttctaccagg aggcgatcat cttctgctcc 60

agcaagaacg cccagctccc cgacggccaa gttcccgtgc cggcgcagct cgtaccgtcg 120

aatccggtgc tgaattccga ggtctcaccg gcgacagtga gccaaggtcc tccagaccat 180

cctcccggcg ctcgtccgtc gccgcacagc ggcgtggcca acggcaagca aacgccacgg 240

aatcccgtcg ctacctcgcc gagccaggat gaccggtccg gggcagggaa agagaaccag 300

tcgtgcagca acacgccgag cacgagcagc cgccagtcgc cgtcgcagca gaagacgccc 360

aagtccaggg cgacgccgcc gtctgacagg cgcagggtta ctcctgctca gacaagccct 420

gctattgcgc ctga 434

<210> 36257
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C8

<400> 36257

cccacgcgtc cgcaaaaccc tagctcgccc ttcccaattc cccatttcgg ccacaccctc 60

ggggcctcca cggatccacc cctgcttcag gttacctgtg ccagcgacgc cggtagaagc 120

catggacagc tctctcgcga gcgcggcggc gatagccgat cagcgccaga agatcgagca 180

gtaccgccac atcctcgcct ccgtcctatc gtcttcccca ccggacatct ctcaggccaa 240

gcgcttcctc gaccacatgg tttccgacga agttccgctc gtggagtccc gtcaattgct 300

ccagacgttc gcgcaagacc tagggaagct ggagtcggac gcgcagaagg aggttgccca 360

ctacgcgctc acgcagatcc agccgcgtgt ggtctccttc gaggagcagg tggtagtgat 420

tagagagaag cttgcagaac tatatgag 448

<210> 36258
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-049-Q1-K1-D1

<400> 36258

gcgnccacgc gtccgcttgt ctctgttgac actcttatct atgaccatct ctgcgctgag 60

ccagtgagcg aggacgttca gagctgcgac attgtcgcct tcaacaagat ctaaatttcc 120

ttgtgatggt ggcaatggtg gttggtgggc actgtaccag cctaatttat aattttccat 180

gagcatcttc aagagttttt ctaaattatc atttggagtc atttacataa aaagcacttt 240

ctatatcttt ttaatctcaa caacttttct atatcttgtt ggcaccatct ttagctagcg 300

agaaacctgg atggctggaa tagaagataa ctatatttag acaatacttt tagtaattct 360

tgtgtgatcg gatgcataat ggcttggtct ggctgggt 398

<210> 36259
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-049-Q1-K1-D10

<400> 36259

ccacgtttgc gaacagctct ggagatgctg ttatcgacac aagagataga aaggcgtcta 60

gaagaggttt ctttgccctt gatcattttg cacggtgagg ctgatatggt tactgacccg 120

gcggttagta aggctctgta tgagaaagcc aagagccaag acaagaagct gtgcctctac 180

aaaggtgcgt atcacgctat cttggaaggt gaaccggacc agacaatatt ccaagttctc 240

gatgatatca tatcctggct cgatcagcat tccacaaaag aaggtatatc gttgtgaatc 300

aggcagcgct gttcgccagg attgggtgaa ttcctttggc aatgctgtat cgcttncggt 360

tggggatccc ggattcaacg gtggggattc catttttgat atga 404

<210> 36260
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-049-Q1-K1-D12

<400> 36260

gcagatccgt aactttgggg atgctgtctc tgtgtgcact cgctcgcccg agaagctggg 60

gcgcggatcc ttgacatgta tgaggcgctt gctgaggtga tccctgaact aaaggagctg 120

ttctttggga gttatggngg tgatgtcatc catgatctgg agggggttct tgaaaggctt 180

ggtgacgcgg tcaagggtac ccttcttgag tttgggaagg tcctacaaca ggagtcatcg 240

cggcgaccca tgatggctgg tgagatccac ccaatgacac gctatgtgat gaactatctc 300

agattgttgg tcgtttactg tgacacactt gacatacttt tggatgacag tggtgctgga 360

gctgtagatc attaatattt acataatggc accga 395

<210> 36261
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-D7

<400> 36261

gcagaggaca ctactcctca gaactctccc ttccctcttg taggggccaa aagggtcaga 60

gagctaggaa gaagagaact agtgcccaag cctaacaaga aagcaagctc ttctgcaact 120

gttggcattc gccttaattt gtatccatcc caatggcagg cctatctctg gaacacccct 180

gggcattcac tttcggcctc ctaggcaacg ttatctcctt catgaccttc ctggccccga 240

taccgacgtt ctaccgcatc tacaagagca agtcgacgga gggcttccag tcggttccgt 300

acgtggtggc cctgttcagc gccatgctgt ggatcttcta cgcactgatc aagtccaacg 360

agacgttcct catcaccatc aacgcggccg gctgcgtgat cgagaccgtc tacgtggtca 420

tgtacttcgt ctacgcgacc aag 443

<210> 36262
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-D8

<400> 36262

cccacgcgtc cgggcgaggc aaaagcattg ttaccacaga cagcgcgcgc ttcaaggcct 60

tgtttttttg agataacaag gaggagagga ggagatggcg gtcacgatca cgtgggtgaa 120

ggcgaggcag atcttcgaca gccgcggcaa ccccaccgtc gaggtggacg tgggccttag 180

cgacggcagc tacgcgaggg gggccgtacc cagcggcgca tccactggaa tatatgaggc 240

cttggagttg agggatggag gatctgatta tcttggcaag ggtgttctta aggctgtcag 300

Docket No. 38-21(53535)B Application No. 10/660,870

caatgtaaat aacattattg gaccagcaat tgttggaaag gaccccactg agcaggttga 360

gattgacaac ttcatggtcc aacagcttga tggaacctcc aatgagtggg gctggtgcaa 420

acagaagctt ggagcaaatg ccatccttgc 450

<210> 36263
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B8

<400> 36263

cggagcctgg gcggacgctt gggcagcaga ttatatcaat tgccaaagca gccattacaa 60

tggtactcat tttagggact tcatttcttg cagctgccaa tccaattaca ggatgctatg 120

acgctcttaa gtgatcatga acttatacat tgaaataatg gtgggcctcg agaggccaga 180

aggtggagag gagttcaaca agtactacat cctgtctgct ctcctatccg tggattgcag 240

gtgagtgcaa acaacttcct gctaaaagtt agcaaggaat cggttgatac ttattgatgg 300

tgcctgaaat atcctataga tgtctttagt agaggatcca aataatggtc tgcaaggttt 360

attgaatcgg atcgcacaaa actccatctg cttcagaatt gagctaagcg catcctaaca 420

tcttgactcc tatatcgatc aattattt 448

<210> 36264
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A10

<400> 36264

aatggaggaa gagaaagcgg cggcgtacta cgtcgagctc aatcgcaagg gcgagggcgc 60

gcgccgcttc aagcaggggc ttggcttctc ctcctcatcc gccactgcct tcccttccaa 120

gcccaccgcc tcctccttcc tatccggttt tgttcgcgcg ggcgcagccc ctggccccgc 180

caaacagccg ttaccgcatt ccaggacccc atccagtccg caccatcgct caagttcacc 240

gcctctttcg cg 252

<210> 36265

<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-049-Q1-K1-A11

<400> 36265

gcccgaccga cgcatgcgat catacacaac acagcctctt gaattgctca attcattaag 60

atttcagaaa tcaaaacgcc agcagttact ttcaagagaa gaaagcaatg cacaaggcaa 120

tagttacctt gacagccggg gggaaccctt catcagtgac agtaataatg gtgagcataa 180

tcatccagag gcaggtctgc aaactatcct ggagaattca gaagatttac cgtcaccatc 240

agggagaaca caacctgccg ttttcccacg tggccaaagc tttggacaaa gaattatggg 300

caatatgatg gataatattt ttntcagaag tcttacgtnc aaatcaaaaa gtcgaacaga 360

tgatattgct tcaaccttaa ctgtgaaagc ccctgatga 399

<210> 36266
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A12

<400> 36266

attgtatcct catgtcaata acatggatgt atttttgta gctaagctga aaaagttgag 60

cagtacattc ccggtgacgt ctgagccgtc taaagcatct gaagaagcag ctaaggttga 120

tggcgaagat gagaaagcta tttctaatga acaagagact ggtgttcctg ataaagatga 180

gaaaactgtt gagataaaaa atcataaaaa tgtgactaat ataagaacaa gtgtcaccaa 240

agagaatgga agccataaac gtgaatccaa taagccaaga aagcatctca aggaaaatta 300

g 301

<210> 36267
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-049-Q1-K1-A2

<400> 36267

cccacgcgtc cgcaggttta tctgcttccc tttcgcgtgt tcacccggcg agagcagcgt 60

cggtgaacgg atttcctttt tccctgagcg aagctcggat tctgttgcaa ctaaccggat 120

cactcgccta ccgtgctaat cgcttgcggg ccggctcccc tagacttaga acccagtagc 180

cttataaaac cgagccatcc cttttcgctt atgtcttgtc cgccattatc gagagcagag 240

gaatttgagc gatgccgcca acattgattt cgggctgcgt tcgggttggg gccacggtgt 300

actgccaggg cgcttcgcca gggcacaatg actgtggccg tggcaccggt actaggaaaa 360

gagcatcaga agtcctatta tccctcattg gagttagagc tccgncgtgg acccaaatat 420

cgccgtggtc tgggttctgt gctgcgt 447

<210> 36268
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A3

<400> 36268

ggtcgaccac gcgtccgcgg cgaccatggc cggcgcgcag gagtcccttt ccctggtggg 60

cacgatgcgc ggccataacg gcgaggtgac ggcgatcgcg accccgatcg acaactcgcc 120

tttcatcgtc tcctcctccc gggacaagtc cgtgctggtg tgggacctga ccaacccggt 180

ccactccacc ccggaatccg gcgtcaccgc cgactacggc gtccccttcc gccgcctcac 240

cggccactcc cacttcgtcc aggacgtcgt ccttagttcc gacggccagt tcgcactctc 300

tggctcctgg gacggcgagc tccgcctttg ggacctctgc accggcctca ccacccgccg 360

cttcgtcggc cacgagaagg acgtcatctc cgtcgccttc tccgtcgaca accgccagat 420

cgtctccgcg tcccgcgaca agaccatcaa gctctggaac ac 462

<210> 36269
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A4

<400> 36269

accacccgtc cgccaggcca tcgcgccgct ttcagaattc cctttaactt tttgacacga 60

tgcgaaccca taagagctag gggactacta taacaagcta gggccataac tctactttca 120

ttctctactc atcactggac aactccgcgc aggaactaca cctcaccaac ccgatactct 180

ccacccagga ataacgataa caccgtacac tactatcttc ccctttcatc gcctcaccga 240

tcactcccac ttataccagt acgacatact tacatacaac taccaattaa cactctctag 300

ctcctgtga 309

<210> 36270
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A5

<400> 36270

cacgcgtgcg gtgcgacacg gtcgccgcgc tcattcgcgg ttcgctgcgc tgctacgccc 60

gcgagggccg cgggccgctg ctcgggaccg acccggccgg cttcgtcctc tccaccgcca 120

acggcggatc cggcgcactc ggagaagacg agaggatcag cttcaacggg tgccggaact 180

tcctgctttg gcagaaggct gcggctcagg gtgccgccgc cagccacgcc gggtccgatg 240

ctctgacggc aaccctgagc cccggcagga agggcagcgg tggattcaag gctactgatc 300

cgagccatgg caggaaaggc ggcggcggct ggaatgctgg actgaacaag ttcctgctca 360

gcttcagcat caaggtgtga tccatgcgtg gacgagagaa ggggggcgtt tcttggtgtc 420

gaggcaccgt gcaacaataa aaatgcattg 450

<210> 36271
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-049-Q1-K1-A6

<400> 36271

accgggaacc ggaggagatt tctcgggggt gtagtggcgg ccaggacctc tgattgggct 60

cgagtgcccg atctttgaac gcagatttgg tgcccgcaat ctgccatgga tttggtttaa 120

gatttgggga gatcggtcgg gttcgcgctg caagattcgg tctctgtgcc tgttttattc 180

acgagatcgc aacaacgata ttgctaagca agataagatt tcaacttttt tcctggatcg 240

atctcagatt aggaggagca aataaagcaa gaatagaaag atttttgggg ggagaaggca 300

tgatgctgga agggaagtcc taccttgtgt cgcgctccgt gccgagctcc tgcgagccgg 360

agacggagtg ggagtacctc gcccacgcgg tcctcagcgg caagcgcccg gngccggaag 420

atgacgtcga ggtcgaagac ccg 443

<210> 36272
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A7

<400> 36272

gtcggtggcg gccatcgacc gcgcgatgca ttgcgacatt tacctggccg cggtttatgc 60

gagcaagcag acgcgatgcc actcggtcgg gtggcaacaa gtgaaggact gagaactcga 120

tcggcaccag tagattaagt gggcatgacg tcaataacta aatgattacc tacctagccg 180

cttgtactag tcatgctcta ctttatatta ctttaaaaga tacatttcgt tgtgtaatca 240

tcttatggtt catc 254

<210> 36273
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A8

<400> 36273

cccacgcgtc cgcccacgcg tccgcggacg cttgggtcct cgcgccgccg ccgccgccgc 60

cgggacggaa ggaagaggag gagcaaggag cacgacgcga tgggccactc caacgtgtgg 120

aactcgcacc ctaagaacta cggccctggc tcccgcgtct gccgggtctg cgcgaaccct 180

cacggtctga tcaggaagta cgggctcatg tgctgcaggc agtgcttccg cagcaacgcc 240

aaggacattg gtttcatcaa gtaccgttga agaggccact gtgctgctgt ggagaacttc 300

ctacatcaaa gaaatgggtc cttcattaga aggcctaatt tatgcgcttt agctttttgt 360

tcagaacttg agactcatgt gttaaactcg acttgttaaa gttttgatgg ctactttgtg 420

cttgttggac cagctataat cagaagatt 449

<210> 36274
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B10

<400> 36274

ccacgcgtcc gtttgttgtt ttttttttt tttcttaatt ttatattcca cttatctctc 60

atctttctgg gaggtttttt tttttggaaa agggccaatg cttatggcaa aaaattttaa 120

ctgcctaatt tcttcaccac gctttccgcg aaaccaccgg ctatttaaag gaaaaccccg 180

gtaaaaacca tttcaaaacg cgcacacttc actattgaaa aacctatcca ttagaaaaaa 240

aagggataaa gaaaaccccc taaaaaaacc gttccccaac c 281

<210> 36275
<211> 118
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B11

<400> 36275

cccacgcgtc cgcatgcatc aaccagcatt tactgcggat cgatgggtgc tgttacccgc 60

gtcaggcttt attctaagtt aaatcctaag gaaaaaaaat ggtgcttctt ggtgctgc 118

<210> 36276
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B12

<400> 36276

ggagaaactg tattttgaga cagagcggtt tgtccgagaa aagcaactta aggagcagga 60

ggaatcactg caggaatggg agaaaaagct gaaggaaagt cagaatagac ttaatgagtt 120

gcagagatct ataaatgagc gagaggagag agcaaataag aatgatcaac ttttcaagat 180

aaaacaggac gaactggagg aggcacgaag gacagtggag gccgctaaag ttactctgaa 240

agtcaaagag gatgatatta acaaaagact aaatgaattg catttacagg aaaaggatgc 300

tgactcaaag cgtattgcat tggaagagca cgggaaaaaa ttggatgaga gagaagc 357

<210> 36277
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B2

<400> 36277

aaagagaatc ccggcccgtg tccagaagac ttctcagtta ccgcaaaatc cccaaatccg 60

cgggggagag gagagagccg gagagagggg cgcagccaga gagatcggag aaggggaaga 120

agatggtgcg ggtggcgacc tacttcgcga tgaccttcgg ggcgttcctc ttctggcagt 180

ccatggacag ggtccacgtc tggatcgccc ttcaccagga cgagaagaaa gaaaggatgg 240

aaagggagct ggagataaag agaatgcagg cagagttact ggcccaagct aaagagaatg 300

aatcatgatt gtcatttgtc caatggtttc aggcagttcc tttatcgtat ttcctctgct 360

gtattttcca tgcaatatct tgactgatgt atgctcatgc tcagcacctc caataaagcg 420

agacatgcta tagccattgt gaatgccagt gggt 454

<210> 36278
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B3

<400> 36278

cttcatggtt ttgctatttc tcggttataa ttattgcttc tcttcctcta aagaccaatg 60

agaagtcagt gtggttcgtg atgattggca tgatcatatg aaaagtttga agagatattc 120

ttttataatg acatgttccc tcacatgctt ggatgtttgg cattttcag tcatttagca 180

gaaccaaaga catgacatgg cgacctgatc tatttagtga tagcatggcg gctagtggaa 240

tagaaactgg tacaaaattg tacatttcaa acttggacta tggggtctct aatgaggata 300

taaaggagct gttttcggaa gttggtcatt tgaaacgctt tgctgttcac tacgatggtt 360

atggcccgcc aaatggcact gcagaggtgg tgtttacacg gaggagcgat gcaattgctg 420

cactgaaacg ttataataat gttc 444

<210> 36279
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B4

<400> 36279

acaactgcca attcaattac aatatgctaa tactctcata tgccatcata aacttataca 60

tttaaataat gttagtcctc tagaggactc aaagtcatga cgagttcaac atgtactaca 120

tatctgatct cataactata cgtggattgt ataccagctc aaacaacttc attttaaaag 180

ttaacaaaga atctctttga tacttattta aagagcctga aatatcacat agattatttt 240

aataaactat ccaaataata ctatgaatat tta 273

<210> 36280
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A1

<400> 36280

cggacgcgtg ggcaaacata ttgaacataa tttaaactgt tcgaaagtat tcaattgatc 60

gggatttagt accaactgga tcagaattcc accctgggcc tatccccatt ctcaataagc 120

atggagatga tgtcgaagag gatcacgtgg atggtgcatt ttcattgtca tctcgcaatt 180

ttgatagctt ttcacaccaa tatcctgttt tggttgtcaa cttctatgct ccctggtgtt 240

actggagcaa tcgactgaaa ccttcatggg agaagacagc ttaaataatg agggagagat 300

atgaccctga aatggatggt agaatccttc taggcaaggt tgactgcact gatgaagttg 360

aattgtgtag gagaaaccac atacaaggat acccatgcat tcgtgttttc ccgaaaaggt 420

ctgatat 427

<210> 36281
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B5

<400> 36281

ccgggccgac ccacgcgttc gagacaccgg agttcggagc gctgttttgg ttttacggcg 60

tccacatcgt ccggagcccc cttgtcctca catggctgcc accgatgtga gcttcgttta 120

tttaccgtgc gtttagagca agcaatggag caggaacctc tgggcctggg taatcaagcc 180

agagatccgt tgtgtcgcag cggcagcggc agcggcagaa caggttcact aaccaacgga 240

aaaatactgt caaagctcca catgagaacc gcctttattc ttcaatgtat tcatgcttat 300

tcc 303

<210> 36282
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B7

<400> 36282

cccacgcgtc cgcgccaatg atatctgaag ttgcactcct tttctgaagc agaaatagag 60

ggggcgtgca acatttcact tgtgctgctg catcattggg tcatgggttt tacaggtata 120

ggtcaactag gctcaaagat acacaggtta tgcgagatca agatctactg taccatgaat 180

taagatttaa gagagagacg ttgtgcgcct cttgttacga cacttgatga acagcatagg 240

gaatgatacc atcatagttt tagtagtc 268

<210> 36283
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G11

<400> 36283

aattccgtcg acccaccgtc gctacctcgc gacctactct gacttcactc ttatctccac 60

cgatccatga gctataaact ctaactccgc cggccactcc ttccccaaca cccaacacat 120

ctcaacctct gctatgcgca atgcatacat ccagaccgaa tcacgccgtc ccttgccaaa 180

aatctcccaa tgtgatgacc acgatcccgc ttgcccaaac cgatttactt tcatattcca 240

caaacccaga catgaccaaa actgctgcaa ctgccaatac acaggatcat ctttcaagca 300

ccccacaact gataagctag actcttatcc tgcataaccc tgctccaaga aatcccttcg 360

ctgtc 365

<210> 36284
<211> 317
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-G12

<400> 36284

ntcgccacgc gntcccagaa aactcccaag gtgtgtcttc cattgaagtg aatggttctt 60

caaaagcgtt taccaatggt gagcaggtgg atcccaagac tgaaactagc acatccacca 120

gtaacgtgca caatgaatct caaggggctg atagcagttc tggatcaaat aactcaattg 180

gtaacggccc tgaacaaacc ggtaaaactg aaaggcagtg ataccactat ctagacacga 240

acattgtttt agtataaaag agttgattcc tggagattga agaggctagt actgaaccaa 300

gaaaaactgt tcacatt 317

<210> 36285
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G2

<400> 36285

cgcaggacgc cgtgatcgcg ttcaagacgg ttctctggtt ctggatgaac aacgtgcacc 60

gtgtgatgcc gcaaggcttc ggcgccacca tcagggccat caacggcgcc ctcgagtgca 120

acgggaacaa ccccgcccag atgaacgcgc gcgtcggcta ctacaagcag tactgccagc 180

agctccgcgt cgacccaggg cccaacctca cttgctaggc cagcagctcc tgctagctcg 240

tccacaataa atgctcggcg tcgcaccctc gcgaaaccaa gagtttactg actagtacga 300

gctaactagc atgcagtaat aataatcatc gtaataataa taataaaacg acggggctga 360

gccactttgt tcgacctgta tgaataatga aacaactgta tgttccctcg gt 412

<210> 36286
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G3

<400> 36286

ctctgcggcg caacggccac accttccccg gtcccgcctc cgtctctgtc cagcgggcct 60

gcagtctgct cgccgaccgc ccgcctgtcc ctccctcctc gccgccatga acaacctgct 120

cacggattcc tttgagctcc ctcagcggga ctcctcaaga gacgcagata ttgaaatggg 180

aatgcatcat gctgatgctt cagacaactt gaaagatttc ttgaagaagg tcgatgcaat 240

tgagagtata attgcaaagc tgacaaatct attgaataag ctccagactg caaatgacga 300

atccaaagca gttacaaaag caagttccat gaaagcaatt aagcagcgga tggagaaaga 360

tattgatgaa gtggggaaaa ttgctcgtca ggcaaagaca aaagttgatg aactggaaag 420

agataaccta tcgaataagc aaa 443

<210> 36287
<211> 105
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G4

<400> 36287

ctcagcgtgc aacgacacta gcatcatggt tttcttatta tccggtgttc agcgtcctgg 60

cgaaagggag ccatactcag atgaagggat tgcttccatg acgac 105

<210> 36288
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G5

<400> 36288

tctatctcga accttggttc gccgcacggc atcagaagca cggccgtgtt ctcatcccgt 60

ccagacgttt ccgcctcccg agccacgtcc gccgttagcc gcggccgaca cagctcctcc 120

tcctcctcgc agctcttctc cagctctcgg aggcccgagg tttcatcgac ccgcgctcct 180

tcatcctcga cacctcactc cggcggcttt tttccgcagt gctgcacatc gcgagccgcg 240

cggcacagcc gcacttgttg tccttcgtgc gtggggtgcg gttcgacgcg ggcggcggga 300

tggcggcgag cgcgcgggac agcaccgatg cagcggagcg agttgtggat gaccacgacg 360

gctgggcgtc ggacgccgag atggacgtgg agatggatgt ggtggaaggc gatgccgacc 420

ggagggacgg cggcg 435

<210> 36289
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G6

<400> 36289

cgtccgctgg agatgatgga gaaagctata gcagctgtta agaagaatcc actgcccaag 60

tatgagaagt ccttaattct tctaggacta atgaagtatg aagaagctct ggatgagttg 120

gagcggctaa aggagattgc acctcatgag agtagtatgt atgcactgat gggaaagatt 180

tacaagcaac tcaatattct tgacaaagct gttttctgct tcggcattgc cctggatttg 240

aaaccacctg ctgctgatct tgctataatt aagtccgcaa tggagaaagt acatcttcct 300

gatgaactga tggaggatga cctataagtt cactcaagca 340

<210> 36290
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G7

<400> 36290

acaagccaaa gttgcaaaga tggcttgatg agtttgggga gtactatagc agagttgtgg 60

tagggctttc tttggttgtt gcacttgtgg gaccattact ttttaagtgg ccttttttg 120

gtaactcagg ggttcaattt accgtggatt atgacttatg gtggctgcat ctccctgtgc 180

attggctgta gctccattgg catatgcaac tgcaatcagt tctcttgcta gtaagggaat 240

tttgttgaaa ggtggccatg tcttggatgc tctttcgtct tgtcagtcta ttgcttttga 300

taagacaggc acactaacaa ctgggaagct tatgtgcaaa gcaattgagc ctatccatgg 360

acatttgggt gtgaaaagtg gtcgtagtaa tccttcttgc tgcactccaa actgtgaaag 420

tgaagcatt 429

<210> 36291
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G8

<400> 36291

ggcctcctgc tggaattgac attcttgtag tattgtcttg acttatctgc agcaagagag 60

ctcgaagctg caccatgccc aaaaagtgaa aatgttctgt attgaactaa actattgcac 120

aataatggct atactcgcgg gctttctggg tggagtccta tgggttcatg tcgattgagt 180

atccagactg aagcacccca tatgttacct tctatcttga aagaccgtgc aagccagaca 240

catattagtg gtcattatat tcttgccacg aaccgtacag atgttcggat gggtccttac 300

aggtcataac t 311

<210> 36292
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G9

<400> 36292

ctcaagccta cacacatgca ttatctctat ttttaccata tcaatggact aattaacatt 60

cacgaccatc ttaaacttac ccgagcccta caaaaccagc ctaatccaac ttacttatgt 120

actataccat ctttactact tatactacaa ccagctgtct taccaacac 169

<210> 36293
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H1

<400> 36293

cccacgcgtc cgcccacgcg tccgcccacg cgttcgggaa gggttgtgtc ctagccagcc 60

ggcgaagatg agctgctgat ggtaatgatg atgataagag gccactgcta ccctactacg 120

taccctcctc tttgtgtgct gccatccgtc cccgttagac gatcgaggag agaataacgc 180

agagctctct gctcccggcc tgtcttctgc cgtcccggcc gtttaattta ctagtgtgtt 240

cgtcctatat gtttagcagc agcaggtgta ttgtgcgggt atgtaatggt attgcaacta 300

tattgggtgt 310

<210> 36294
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H10

<400> 36294

tcgcgagacg cgtccgcgat ccatctcact ctccgctggt cgctcactct tgcagctcca 60

ctctgtactc actcttacgc tcttattagc tctaggctct agctagccgc gccactcctt 120

cgtgtagcca tcagccttct catcgccacc aatggccact gccgaggtcc agaccccgac 180

cgtcgtggcg gccgaggaag cgcccgtggt ggagaccccg ccgtcggccg tcgtgcccga 240

ggagtctgcc cccgccgagg ccgatgccga ggccgaagct gctgctcctg ctgatcccga 300

ggagcttccc gc 312

<210> 36295
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H11

<400> 36295

aacccaacac atcgcgtctg cgttctccca ctttacgccg gcgagtgttc gttgatggct 60

cggtgcagct tagagaatag atgcagatag cagggatgag cgacgagcgg gtgaaggcgg 120

atgcgctgca gatcctgggc ctattccaag tgctacaccg cctcggcgtc ttcgacctcg 180

actataccct gtggcccttc tactgcgagt gccggtccaa gacggattcg ccgagccttt 240

tcaggcacgc caggggcatc atgtacgccc tcaaggagaa cgggatcgac atggcgattg 300

cttctggatg ccccaccccg gacat 325

<210> 36296
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H12

<400> 36296

acatcctggg cctattccaa gtgctccacc gcctcgtcgt cttcgacctc aactataccc 60

tctggccctt ctactgccag tgccggtcca agacggatac tccgagcctt ttcaggcaca 120

ccacgggcat catgtacgcc ctcaacgaga taccgatcga catcgcgatt gcttctcgct 180

tccccaccc 189

<210> 36297
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H2

<400> 36297

cccacgcgtc cgccaacggg ctcaacatcc ttgacatcat cagcgagcac ctcggggccg 60

aagctgcgct gccgtacctg agccccgagc tccgagggga gaagctgctc gtcggcgcca 120

acttcgcgtc ggccggcgtc gggatcctca acgacacagg aatacaattt gtgaacatca 180

tcaggatcgg cgaccagctg cagtacttgc gggagtacca gcggaagctg cgagccctcg 240

tcggcgagcc gcatgcgacg cagctcgtga accaggccct cgtgctcatc acgctaggcg 300

gcaacgac 308

<210> 36298
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H3

<400> 36298

ttcccggtcg agcacgcgtc cgcccacgcg tccgccacgc gttcgaccac gcttacgtac 60

gatccttctt cactgctgca ggggaggagg gctctctcgt tacgcccgac catgcacggg 120

tggttgtact tgaatcaccc gaggcagcat cagaagaagc agaaactcga gaagtttgtc 180

tttgatcaat tacgaacagg cttgcatctg ggcgtgggct ctatttgcag cgtgtgctac 240

tacataatct actggtacat tcatatcata tgacatttac tatttttgc accttgagac 300

attgcttagt acttctgtgt tgccttgtga aaagagagtg gtaaggcttg gatccgctga 360

tgctcttgtt taaaaaaaaa acacttccag actaaag 397

<210> 36299
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H4

<400> 36299

cgcgttcgcc cacgcgttct cccactcttg cttttcaacc ttcttcactg ctacacggga 60

cgagcgcaat ttcgatgcgc cctaggaggc actggtgcct gtactagaat cacccgaagc 120

atcatcataa gaagcagaaa ctcgataagt ttgtctatga tcaattacga actggcttgc 180

atctgggctt gccctctttt tacagtgtga gctactacat aatctactgt tacattcata 240

tcatatcaca tttcctattt tttgccactt gagacattgc ttaatacttt tgtgttgcct 300

tgtgaaaaga gaatggtaag gttttgatct gctgatactc ttgttt 346

<210> 36300
<211> 274
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-G10

<400> 36300

gctcactctc cgctggtcgc tcactcttgc attttcaccc ttcactcagt cttagtctct 60

tatganctct atgctctagc tagccgcgcc actccttcgt gtagccatca gccttctcat 120

cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc gaggaagcgc 180

ccgtggtgga gaccccgccg ccggccgtcg tgcccgaaga gtctgccccc gccgaggccg 240

aggccgatgc cgaggctgct gctcctgctg atcc 274

<210> 36301
<211> 239
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-H6

<400> 36301

gggtccggcc cacgcgtctc gcacacagga tgaacgggtg tgnggcatgt gtgttgttat 60

ttctgccgtg tgtgtatgta tacagggtgc ggctgtatgg gtagatcagg ctatatatat 120

aacagactgt gtgctggtct attattgccc tcatttcaaa tacttatttt tttcgccggt 180

attaataata ttattacatg gagtatggca ttagtataaa aaaactatga taacaaaaa 239

<210> 36302
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H7

<400> 36302

gcccacgctc gcccacgctc gccacgcttt cgcgacctgg ctcaggtaga gtggagcacg 60

ttcacagatc cagcattatg ataaactgcc attgcaatta accttgaaac caactagatc 120

ttaaagactt ctaaaatacc atgaacatat tatca 155

<210> 36303
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H9

<400> 36303

cccacgcgtc cgctaacgct tgaattcaca cttacactgt atactacttc acaacctcat 60

cccgctcgag aattttcatg agacagcgag gagaatctat cctatataca ccttgactaa 120

cagcaagagc tataaactgt caataacagc tctacagttc aaaagctcta tcaactacct 180

gatcgactac taattaccat tgatacactt atattcaagt ccactgaaga ccttttacaa 240

ccctacatca ttactattat atgctattgc aatccatgaa actccacaca cttcaat 297

<210> 36304
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E4

<400> 36304

cgtccgccct gacaagatcc actttgttcc catctctggg ttttaaggtg acaacatgat 60

tgagaggggc ccgaccttga ctggtacaag ggccgaaccc tacttgaggc tttggacttg 120

atcaatgagc cgaagaggcc ttcagacaag cccctgcgtc tccccctaca ggatgtgtac 180

aagattggtg gtattggaac tgttcctgtt gaacgtgttg agactggtat catcaagcct 240

ggtatggttg ttacctttgg tcctagtggc cttactactg aggtgaagtc tgttgaaatg 300

caccatgagg ctctccagga ggcccttcct ggtgacaatg ttggcttcaa tgttaagaat 360

gttgctgtga aagatctg 378

<210> 36305
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E5

<400> 36305

aaatggctgg aagcaagccc ctttatgtag tttttgcgca gcgtaaagaa gacagaacgg 60

caaggctaca tgcacagttt tcacaaatgc gtcctgttgc aatggcgcct tcaatacgtc 120

ctcgcatgcc catgtttgca cctggtgtcc ctggagttcg tcagcatctg gtctatggtc 180

agccaccacc agccttcatc aaccctcagg ctggatttgc ttttcagcaa cctctgatgc 240

ctggtatgaa gcctggtggt ccaatgccga actttatgat gcctatggct cagcaacgac 300

agcaaccaca gcgtcctgct tgtaaacgtg ctggtggaat gcagcaaccc atgccaatgg 360

gtggtcaaca acaagtggtc cct 383

<210> 36306
<211> 340
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E8

<400> 36306

cggacgcgtg ggttttaggg agagaaagcg ttgaaacgcc gagagaggcg tgcgagcggg 60

aggagggaga tggagcggtc ggcgccggtg aggagctccc acacctccac ggccgaccta 120

ctcgcgtggc cgcagcccca gggccccgcc ccagcaacgc cgtcgccgcc gcgccggccc 180

ggtcagccgt cggaggctat caggaaggtg gtgttcgggg gtcaggtcac cgaggaggag 240

gccgacagcc tcaccaagag gaagccgtgc tccgcgccca agtggaagga gatgactggg 300

agcggcattt tcgctgccgg gagcaatgga aacgctgggg 340

<210> 36307
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E9

<400> 36307

accacgcgta cgaccactcc tgctcccact gtgtgctcag aagctatgcc acctgttgac 60

acacgaccac ataacaaagc acttgcgcaa tcaccatacc aaccgtccct gcaaacatct 120

ctccgtttca tcgcaatatc ccagaaccaa cttcagcttt attaccggcc tgtcacactt 180

tatggaattt cacaatccca taaatctgat cttgtttgcc gtaacgatcg ataaccttct 240

ttgctcaaaa tgtaccgatt gcatcgaacg aatggccaat agcctcacct ggctactaat 300

catttctctg aacttcacat t 321

<210> 36308
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F11

<400> 36308

cccacgcgtc cgcccacgcg ttcggcgctt tcgtcgttgc acgcagggct gcgacgcgtc 60

aggtctgctc aacgcgaccg gcggcatcga ggcggagaag gacgcggcgc ccaacctgac 120

gctgcgcgga ttcggcttca tcgaccgcat caaggcgctg ctcgagaagg agtgccccgg 180

cgtggtgtcc tgcgccgaca tcgtcgcgct cgccgcccgc gactgcgtcg gcgtcatcgg 240

cggcccgtac tggagcgtgc cgacggggag gcgcgacggc accgtgtcca tcaagcagga 300

ggcgctggac cagatccccg cgcccaccat gaacttcacc caactcctgc agtccttgca 360

gaacaagagc ctcaacctcg gcgacctcgt ctggctctcg agggctcaca cgatcgggat 420

cttcca 426

<210> 36309
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F12

<400> 36309

gcgtccgccc acgcgtccgg atacgcactc acctgcgttt ctgctgcatt ctccactgct 60

atctcgcagg cttgctctac tggatttatg ggatctcata acttgccctc ccccggatcc 120

gccattccct cgtgccctct ctccgtaccc tcaaccttat ggctcctttc ttgcttgcct 180

caacaatcgc caaataacag gactagctgg agccgctgag gatctttacg agcgtaagct 240

atgacggccg gttccctgcg ggcaaaagaa cagaaaagga acctgtcttg atgtccacga 300

cgtcgctagg ctcgac 316

<210> 36310
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F2

<400> 36310

cccacgcgtc cgcccacgct tccgcaaggt taaacattta tgattgtatg caatgctcca 60

atcggtgtgg aaaaaaaaaa aaaaagaaag aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggccg 180

cccattttaa agaacccaag cttactaacc caatcatgca accatataat tattctataa 240

tgtcaccaaa atccaattca ctgcc 265

<210> 36311
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-F3

<400> 36311

atcgcctcct gcgcagcgct tcagtcaccg cttgcgcagc ccccgccaac gccgaacgcg 60

ccagcggcga actcgccgcc ccaggcgcct gcagccggaa acccgccgcc ggcgccccag 120

gcgccgccgg caggcaaccc gccacctgcg cccaccgcca ctccacctcc ggccccgacc 180

actccgcccc cggccccgac cacacctncc ccggctccca caacgtccgc cccggcgccg 240

acaactccgc caccgtctcc cccggcaagc ccgccgcccg ctcccgccac cccgccaccg 300

tctccaccca tggcgccacc tnccgccacg ccccctccac ccgccacccc gccgccaccg 360

gccgcgccca cgccggcccc gagcgtggcc ccgactcccc ctgccgtggc gacaccggct 420

gcgtccccca agagcccgaa gacgccc 447

<210> 36312
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F4

<400> 36312

caccggaaac ccgccgccgg cgccccaggc gccgccggca ggcaacccgc cacctgcgcc 60

caccgccact ccacctccgg ccccgaccac tccgaccccg gccccgacca cacctacctc 120

ggctcccaca acgccgtccc cggcgccgac aactacgtca ccg 163

<210> 36313
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F5

<400> 36313

cccacgcgtc cgggaaaacc tctcttcact atttctttcc ctggttgaga acaacgatgg 60

gaggacaaag ttcttagacc atgacgcttg gattcaattg gatggaattc taccatctat 120

gaaaaagttc cgcaagctag cagagttgct tgatatgtca ttgaagtcca tcacatcatg 180

ttgggaaagt ggagacctaa ttagatgtgg tttcacatca tctgaggtgc aaaatttcat 240

caaagcaata ttcgctgact cgcctcttag gaaggagtgc ctaagatgga tcgttaggac 300

tccagcttag aatacagaaa cagcatattt ctgtctgtgg gtcaatgatt ttttttttca 360

tattcttttg tccaccatac catatagtga agtattaatt ggtatgagct cagtttgcac 420

tggagacaga cttgcaatct g 441

<210> 36314
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F6

<400> 36314

cggacgcgtg ggcaagatca ggaggccagt ttaacacctg acccgagtag taggacaggt 60

aggccagatc aagaaaagcg gggaggagca gcttccagat gcacctgagc ggcgggggcc 120

ggatgttgcc gccgaaacag ctgctgacca tcgtcatcat catcttctcc acgctctcct 180

tcatcaagct ccttctcctc accagctcgt cgtcctcgtc agcgggcttc acctaccgca 240

gcagcccggc gtgggacgca tacggcggcg gtaacgggac ggctaggagc gcgctcgcct 300

tcaaggagct cgctctgctc cggtccgtca tcgccgcgcg ggcgccgt 348

<210> 36315
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F7

<400> 36315

gacgaagctt cacccccctgt cacctgaagt tatctcacgc caagcaacaa tcaatatggg 60

taccgttggc catgtggctc atggagagtc cactgttgtt aaagctatat ctggtgttca 120

gactgttcgg ttcaagaatg agctggaacg taacattact ataaagctgg gttacgctaa 180

tgcaaaaatc tacaaatgtg acgatgacag atgtccgcga ccaatgtgct acaaggccta 240

tggaagcgga aaagaagata gccctctatg tgatgtgccc ggatttgaaa acactagaat 300

gaaactactg agacatgttt cttttgttga ttgcccggga cacgacattc tcatggctac 360

aatgcttaat ggagctgcta tcatggatgg agctcttctt ttgatcgcag catatgaaag 420

ttgtccacag cccc 434

<210> 36316
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F8

<400> 36316

ctctgcgcaa tctccccgcc tcgctcccgc cttcacccaa tggcgtctct ccctaacggt 60

ggcggcgccg ccgcctctgg ctcatgcggc gcgcgccctg tggacaagga ggtggacttc 120

gacaactact tctgcacgta cgcctacctt taccaccaga aggagatgct ctgcgaccgc 180

gtccgcatgg acgcgtacca ctccgccgtc ttccgcaacg cgccccactt acagggcaaa 240

gtggtccttg acgtgagcac cgggagcggc atacttgcta tctggagcg 289

<210> 36317
<211> 318
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-E12

<400> 36317

cccacgcgtt cganaaagaa caacaacatg tgtaggtact gctgtggtta tagtcatgct 60

naggacgaca ttcctcatgg tgccaataat gctgctggtg tggaagagcc actggatcct 120

cgtggtgacc ttcatcgtgc tgtcgctgat ggtggaggtt ccctacttcg tggcctgcat 180

actgaagatc gaccagggcg gctgggtgcc gctggtggtg gcgacggcct tcttcgtcat 240

catgtacgtg tggcatttct gcacggtgaa gcggtacgag ttcgagatgc acagcaaggt 300

gtccatggcg tggatcct 318

<210> 36318

<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F9

<400> 36318

cacacgctta cgctagctca atccagacta tataccatac acctgcttca tccctactcc 60

gtggtgtact cactataacc ggagcctgac atagtgatcg aaccatctta gtcacgctat 120

ttatttaaca gctgatacaa attgatgtag caacaaagtt tttcaaaact gctattcata 180

tttttatgtg attgaataat tttacacaaa tacacgt 217

<210> 36319
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G1

<400> 36319

cccacgcgtc cgcggacgcg tgggcggacg cttgggctcg ggcccttcga gtgctacccg 60

gacggcaagg ctgcggcgca cgtcggcgtg tacgagagca gcgtggagga gctgcacgtg 120

ccgtacattg cccccgtgga gtgcggcggt cgggcggacg tcatgtgggt ggcactccgc 180

gacgccggcg ggctcggcct gtacgcgtcg gctcacggcg gctccccgcc gatgcagatg 240

agcgcgagct actacggcgc cgcggagctg gacagggcaa cgcacgtcca caggctggtg 300

aaggggacg acatcgaggt gcatcttgac cacaggcaca tggggctggg cggcgacgac 360

agctggtcgc cgtgcgtgca cgagcagtac ctgctgcccg cgacgcggta cgccttctcc 420

ctgcggctct gccccctg 438

<210> 36320
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C12

<400> 36320

cccacgcgtt cgcctactcc tgctcctgct tctatcacag ctagcgcctg ctccccttcg 60

ccgatgatca tgtcttgcag cagcggcaag tgcgactgcg gctccagctg ctcctgcggc 120

agctcatgca actgcatgtc ccctaacgtg gagaccgccg acgtcagcag catcaagacc 180

atggtcctcg ctgcgccgac caccaaggcc agcgccggcg gcttcgaagc gggcaccgag 240

ggctgcggct gcgactgcaa cacctgcaag tgcggcacca actgcagctg ctcctgctgc 300

agctgcaact g 311

<210> 36321
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C2

<400> 36321

gacgacctga cgacacaagt tcagaacaag gttatcctca tgagcagaat cgacgacgcc 60

gtctgcaggg tccttcgtgt caagttcacc atgggcctgt tcgagaaccc ttaccccgac 120

tctagcctcg ccggcgagct ctggaaacaa gaacaccggg aactggcgcg cg 172

<210> 36322
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C3

<400> 36322

ccagcgtccg gtgcgagctg tgagatgtat cgtttgagga cggacattaa taaggggaga 60

ggagatgagg agcctcaagg aagaggagcg gaagaggggc ggggacagga atcccagagc 120

cgcacaaggc aaggcctaac ctctcactcg caacggcaca cagcgcaggt ctggaagttg 180

ccatgtcgaa cccttactaa tccccacagc ttacaatttt ctatggtgga tcactatgtg 240

tgtatgactc ggtgccacca gaaaaggctc atgcaatcat gcttat 286

<210> 36323
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C4

<400> 36323

catgaatacc catgagccgc agcaaagtca aggcctcagc ctctcactcg ccaactgcag 60

cgacagcggc aggtctggaa tgttgccgat gtctaaccct tcagctaatc ccacacagct 120

tacaattttc tatggtggat cactatgtgt gtatgactct gtgccaccag aaaaggctca 180

tgcaatcatg cttataactg cggctgcagc aactgctgca accaccaaaa gcagtgctgc 240

cactgctttt aatcctccaa tgagcacttc tgtagcatct tgacaagctc aagttgttgc 300

tgaccctatc tcaataaaca 320

<210> 36324
<211> 98
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C5

<400> 36324

tcgggcttct tcttaaatag agctgagaag agtcatttat ttcagcagca aggaatttcc 60

acgagtagtg gaaaaggtac cttcacaaca aaacccat 98

<210> 36325
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C6

<400> 36325

ttctgagcta tccaaaccac tcacagattg attttcacct aacgttgatg actctctacg 60

tctggcgtca ctgcatattc tggctcctat ccaacacatt gacacacacg atctaacttt 120

tcatccagtg aagacgcaca tagatccatc atcatactat agatcagaca gctgacaaca 180

cgctcgatac tcctactgca tcaacgaact cccactatta tccttcatcc ata 233

<210> 36326
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C7

<400> 36326

gccacgcgtc cgattaagaa tttcatatta gttctaaaca cattggaagt cacaaaggag 60

gatgaggtct aagcctataa ggtgttcaag gaccctgagt ccctgacaat cgacaaattt 120

ccttgagtgc gtgcactgat gatagagata ttgtattgat gtggttgacg catgagatga 180

ctaagcaggt atatctaacg ttaactacat atcctaatgt tagactaccc gtctagggct 240

tggggtgttc cccctgtaat taccaactca ccctctgtat tgggcctggc ccatttacca 300

agtctattaa taccactcct agccctgatt aaggttatgg ttctcattcc aacatggtat 360

c 361

<210> 36327
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C8

<400> 36327

accggcacag tactcgtcct ccttgcagag cttgcaccaa cacgccacct taccttgctt 60

tggtcgcact cgcacacagt tgcgagcgca ttgcttgcat tgcgcagccg caggccgcag 120

cacgaagcta gccagtaagc ggtagatggc gagcagcgcg gggaaccgct tcctgaggca 180

gctgagcgcg agcaacggcg acgaagcggt ctgcagcggc ctgcagatgg accagcacga 240

gtacggcggc gccggcgtgg agaggatggg atcccggcgg tggtcgaaga agcgggccga 300

cgccgtcgac gccgctaggg gctacggcgc cggcaacggg aatggcgtga agcaaccggc 360

ctatgccgcg gggaagcggg tgatggtggt agtggacgag agctctggag ccaaccacgc 420

catg 424

<210> 36328
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C9

<400> 36328

cagactctaa cgcagtcact catactgact tttatgcgac taggcttaaa tatgacctac 60

cgtcattttt aagtcacgca tattcgacca caacacatcc aaatacaatg gactaaccac 120

aaagaaacac acaatcacaa catctttacc atttttctgg cttactgcaa gcaaatacta 180

tacccagtta cttgatgtgc tcaaatctta cccctattca cgagttttac ttataccaga 240

tccttcatac acattcatgc tacaaaatat aacccatctg ttgcacctaa taatctgcca 300

ccaatcttca tgcaggagac ttcataacat gtaagctatc ccaatactca tactacgcat 360

catgttccca ata 373

<210> 36329
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-D10

<400> 36329

cccacgcgtt cgatcccgtc cgccgccccc tttcaaccac gaaccacgca agcgaacccg 60

gcggccggcg tgcagcggcg atggcggaga tcccggtgat cgacctgcgc ctcgccggct 120

cgtcgcccga cgagtcggcg cggctgcgcg acgcgtgcga gcgcctgggc tgctttcggg 180

tgaccggcca cggcgcgccc gcggggctcc tggccgacat gaaggccgtc gtgcgcgcgc 240

tcttcgacct tcccgacgac gccaagcgcc gcaacgccga cgtcatcccc ggcagcggct 300

acgtcgcgcc ctgccccgtc aacccgctct acgaggcctt cgggctcctc gacgccgncg 360

cgcccgccga cgtcgacgcc ttctgcgcgc gccttgacgc g 401

<210> 36330
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-D11

<400> 36330

cccacgcgtc cgcagctctc ggcttctgtc tctcatcggc acacccgagc tcgcgccctc 60

cggccacgtc gaggtccgag tcctgctttg atggcgaccg acgtgactga gactcccgcg 120

ccgttggtgg atgcggcccc agaggcgccc gccgacgccc cggcggcgcc tgctgccgac 180

gcgaagccgg ccaaggccaa gaaggccacc gcgccgaaga agcgcgccag cccgacccac 240

ccgccgtacg ccgagatggt ctcggaggcg atcacgtcgc tcaaggagag gacggggtcc 300

agcagctacg cgattgccaa gttcgtggag gacaagcaca aggccaagct cccgcccaac 360

ttccgcaagc ttctgaacgt tcagctcaag aagc 394

<210> 36331
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-D5

<400> 36331

gggggccatg cgggtattac tattctgcca ctcttctcac aggccactcc tgcaagcagt 60

tcggtgtccc aagaagacat tgaggctctc accaagagga cacaagatgg tgggacagag 120

gttgttgaag caaaggctgg aaagggctct gcaacattgt ccatggcata tgctggtgct 180

gtttttgcag atgcatgctt gaagggtctg aatggaattc cggacattgt agagtgctct 240

tttgtgcaat caactgtgac agagttgccg ttctttgcct ccaaggttcg gctcggcaag 300

aatggagtgg aagaagtgct tggtctgggt gagctcaacg acttcgagaa 350

<210> 36332
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-D6

<400> 36332

gtggtctatg caattcagtt gacatcaatg tatttcagat aattctatgg ttggttttat 60

ggtggaaacc agttcgagtt atggtcattt tgccaaagat gttctttgca ggtgtatcac 120

tatttgctgc ccttgggttt gttctgtatg gaggaaggtt atttctgatg ttgcagcgtt 180

ttcctgtaga ttcgaaagga aggagaaaga aattgcagga ggttggctat gtgactacca 240

tctgtttttc ttgtttcttg atcagatgcg tcatgatgtg cctcaattca tttgataaag 300

aagcagatct tgatgt 316

<210> 36333
<211> 396

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-D8

<400> 36333

gaggctgtta aagaagtgct tggatcttta gtaaaggctg cgaagcaagc gcgacttgag 60

aaggttgaga taccagtcaa aatcaagctg ataccagagc catggacccc cgagtcggga 120

ctcgtcactg ctgccctcaa actcaagagg gaggtgatca ggaagacgta cgagaacgat 180

ctggctgagt tgtacgcatg atggttctac tctttttgat acgtttagtg tggaaaatgt 240

gtagagtgtc aatgtcacgc tgagatctat ggtaatttga taccgattat cgttctggga 300

ttattattat tattttgttc aggtagaaga gatatataaa ccttgaaatt ttgagttata 360

tggcttctct tgatgccgaa aaactatatt gcgatg 396

<210> 36334
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-D9

<400> 36334

tcaggtctca tgtgccacat actgacccat tttctattca ttcgcaatcg aaccatacca 60

gcagccattc tgacccacct actgcgccgg aatcctgaga ccacttgcac catgcacaca 120

gcatatccca agaaactacc atcaccacta tcgagcagcc tatagctatt gatcaagttg 180

aacctgtcaa cctcaatgta catgaacttg tggtcgatga tcatcaacct ggctatgctc 240

caaggcgtga atctgctacg ctggataaac ctgcatgtac ttccaaaacg gatgattcaa 300

atgagattcg tgaagatagc atatcactgg aaaatcagtt agaaatttgc aatgcaacta 360

ctatgtctga tgagtgttcc tccacaaatg caaatg 396

<210> 36335
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E1

<400> 36335

cccactcgtc cgcccacgct tccgcccacg ttttcgttta ctcttaggct gactcatttt 60

ctagtgcagt tcaccaccct tcccaattcc ccatcttctc cacgatccaa cacaacccca 120

ccttcacatc aagcaataca ccgtcgtgta cccaatccag ccacacaagt ccacactcta 180

cacagtccct cgatcccctc cccctcttcc ttctcccaat tctcctcgat ctatccttct 240

gctgtcctcg catctatagc ctttcaaaac c 271

<210> 36336
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-E10

<400> 36336

cccacgcgtn cgcccacgcg ttcgcggacg tttgggcagt tttttggact ctacacaaaa 60

ctggtatctt caactaatta tgtgacacga agacaatcag tgaagtttct ttcagagttt 120

ctgttggagg ccccaaatgc tcaaataatg aagcgttaca ttttggaagt tcattactta 180

aacattatga tgggcctgct aaaagattca agcaaaaata tcaggatatg tgccttccac 240

atttttaagg tatttgttgc caatccaaac aagcctcgtg agattattca ggttttggtt 300

gagaatcaca gagaagtgtt gaagctactt cacaatcttc ccacaagc 348

<210> 36337
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E11

<400> 36337

aaaaaaaata ctaccactct ttctaaactt ttttatcaaa aatataaact ttaaacaaaa 60

ctagtgatct ttaaataatt atatgacaca aaaaacaatc aaaaaaaaaa aaaggccgac 120

cttcctaaag aatccaaatt tacttacaca ttcatccaac tcaataacta ttttatatta 180

cccccaaata ttaattcact tgccaaattt ttaaaacatc aatatttgaa aaaccctgtt 240

ttaccccaat aaaatatcct ttgacaaaat ccccttttct ccagatatca tataagcaaa 300

aagccccaat cacatagacc tttcaaaaat tttc 334

<210> 36338
<211> 308
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-C11

<400> 36338

cggacgcgtg ggcaatgttc ttttgcatgt gggtagtggc tntgtcaacc tcgacgaatt 60

gcaggtggtg cacacaaact tttgccagaa ggcactagac tagctgtcac tcttcgtggt 120

gatgaatcat acgagcagct agatattctt aaggatgttg atgatataac aatgttgtta 180

cataatggtc catatgttga ggagaagaca ggcagggtgc atgctgctag gaggttattt 240

gagtacttac aggccaatgg cttgaacttc cctgtaattc atcacataaa tttccctgaa 300

accattga 308

<210> 36339
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A2

<400> 36339

aattcccggt cgagcacgcg tccggggaaa gagcttacgc tgctggggtt atgggttagc 60

ccgttcgtgc tccgggcgcg catcgcggtc agcctcaaag gcctcaccta cgcttactcc 120

gaggagaacc tcgacgacaa gagcgagctt ctcctcagct ccaaccccgt gctcaagaag 180

gtgcccgtgc tcatccacca cggcaagccc gtctgcgagt cccagatcat cgtgcagtac 240

gtcgacgagg ctttccccgc cgccgcacct aatttccttc catccgaccc ctacgaccgc 300

gccattgctc gcttctgggc ctcctacgtc gacgacaagt tctacagcgc gtggataccc 360

gtgttcaagg gc 372

<210> 36340
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-A3

<400> 36340

acctacgcgt gacgccgtac gctaaggctg tccacgggat ctggtgttgg cactgatcca 60

gatgctgctt gggcccgagc ctgcggtgct gcagatgctg ctgcccctgc tgcagaggag 120

aagaaggaag agcccaagga ggagtctgat gacgacatgg gcttcagcct gttcgactga 180

gagtctgaga ccctcgctac ccagccatta gcaaattcgc ttatgctgtc caagacttat 240

cttacgttat gtctgtaggc ttttgttatt acaagtactc aagttttgag tttttgagat 300

gtggctatga caatgtgatg aagaatccta aaccatcgta ttagagtgaa acttggttct 360

atataaagtt ccaaggttct tgaacctcaa aaaaaaaata naaaaatatt aaacttaaaa 420

g 421

<210> 36341
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A4

<400> 36341

gatcgtgcta attctacttc tacttcggaa tttccgtcgg tcccggtgcc tcggattgtc 60

aacgaccgga tgaagtcgct gcagcaggat ctgtggttca tcgtgcgatg gcggcggagc 120

ctaccgtgcg gggctacggt ccagacgacg ccgtcgacgt cgtccgtggg gctgtctcag 180

acgctatctg cggtgccctg agcgatcgtg cccatgacga cccggactta ggcgccgtat 240

gtgcgcctg 249

<210> 36342
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A6

<400> 36342

gcataaggaa ccaccatggg cagcacataa gcattcccat tttactttta ggactgaaag 60

tcaggtagat gtgttctagt tgaaggggggg gggggtgttc tggaacttgg gtaaatgggg 120

gaattctgaa tacagtgcaa atagaagtct gctccctttg gatattgatc atgcatgaag 180

caaaatgtta tatctgaaaa gcgcgtacct tgtaccatag tatctagtct taggtgctcc 240

ttgcattaat atatagtacc tgaatatggc ccaaattatg tatctggata acacatgtag 300

c 301

<210> 36343
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A8

<400> 36343

gaggagagac cgtgcactac acacctcacg cctgaaggcc agatctaagc cttctcgtcg 60

tcgggcaatg acaacgatga acatgtaaga accaaacaaa tcagagcacg accatcggtc 120

tctaatcaaa acgcgcagca cgcacgtagc agagcgcgca tggggcttct ggaccagctg 180

tgggacgaca cggtggccgg gccgtgtccg gactccggcc tcagcaagct ccgcaagcac 240

gcgtacttct ccccctcgtc ggcc 264

<210> 36344
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A9

<400> 36344

cttcttcatg tttcaaatgg gacttcatac ttttatgttt ttccatcaag ctatgggatg 60

ggctttcttg ttctttatac ttgtgtgctt ctttcaactg ctccaaatat ttaaatagct 120

tacatgtgct cttgttacat tcagattgtt aaggagaacc aaatgcttca caaaggctct 180

gttgagattg aagatgattt tgctactctt gctgataaga gtatttttcc tggggatttt 240

ctctgggtca gagactctga aatatatgag aaccgtgaca ttgcagatga gatttcagaa 300

caaaaggatg atatgctac 319

<210> 36345

<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B1

<400> 36345

gcggctcgat ccatctcact ctccgctggt cgcttactct tgcagctcca cccttcactc 60

agtctgagtc tgttattagc tctaggctct agctagccgc gccactcctt cgtgtagcca 120

tcagccttct catcgccacc aatggccact gccgaggtcc agaccccgac cgtcgtggcg 180

gccgaggaag cgcccgtggt ggagaccccg ccgtcagccg tcgtgcccga tgagtctgcc 240

cccgccgagg cccaggccga agcccaagct gctgctcctg ctgat 285

<210> 36346
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B10

<400> 36346

accacgcgtc cacccactcg tccacccacg cttacgaaaa aaaaaaacac aaaaacacaa 60

aaagaaaaca ttaaaaaaac cacaaagccc acacaaaaaa aacaaaaaaa aacaaacaac 120

caaaaccaaa caaacaccaa acaacaaaca aaaattaact tcacaaccac acaactaaca 180

acctcttcac catccaaaac ctcacaaacc tttacaaaca caaaccccaa cccatcccca 240

aacacccccc agtcaccaaa a 261

<210> 36347
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B11

<400> 36347

cacttgtgtt gcctgttcat ctatcaaagc tttacctgct ttggtacggt tatgatcgca 60

gggatggtgt ccattcactc tgtgcagcta tatggtcaaa acataggaga tggttgatga 120

tgtcaatgat gtgtctcaat ccaatagctt gttcgtttat ggatttgcaa ttccctaatg 180

ggcaactaac atatgttgct ggtgagggga tatcagccag tggttttctt ccgttatttg 240

gtgggttgct tcaagctcaa ggaaaatatc ctggagaaac aagagtgagc ttttcttgca 300

agaataagcg tggcacaagg tttactccta tgtttcaatg gcctgacaag tctgtttcgg 360

taggagttac tcaagccttg gcatggaaaa gatct 395

<210> 36348
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B12

<400> 36348

ccacgcgtac accgtatata cttcaacttg tcgtcccaaa agcactaccg tcgcgagttc 60

tacacgccgt cagctggacc ccgaccctcc tgcatcgctg gaggacttaa acgagggcgg 120

attggccgcg ttgggcgccg cggcgtcccg acgatcatgg gtacaggaga cggaagacgg 180

gtcgacagca ccggcaagcc acgatcacga gcgcactttt gagacgagaa ctggcgatcg 240

gcggacttct tcgatgcaca tatatagcgt aggcatttcc atttgcgaac ttttgctgat 300

ttctactact ggctatacac tagcaacca 329

<210> 36349
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B3

<400> 36349

actaactgct tcgaagaata accctgttag ttttccatca aagcctgttg gaccacctcc 60

aggatttgat catgtaaccc caaagcgtca agatgattct attccggttg aaaaactgca 120

gaacccacag gtcgatgatt acagctggct agatagctat cagcaatcga ttgatcatgt 180

tcacagctta agaactattt atcctggtgt cagtgatact agcactgcat ttgccactcc 240

attctctttc cctgggagga tacacacaca agggaccaat gaaaagactt ggcaagattt 300

ccacctttt gagccttcaa aacagaacat gttccaaact taccaccaaa gaaatcttca 360

aagtggtcaa aaggatgaac aagaaccagc aaattctatc tggtct 406

<210> 36350
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B4

<400> 36350

actacgcgtt cggttctaga tcgctagcgg ttttccttct taatctgtta atgcacttcc 60

atagctcagt tatctcacct tgtagcttat aaatcatgtt attcaggttg tgatactgca 120

taacccacaa gtcgatgatt acagctggct agatagctat caacaatcga ttgatcatgt 180

tcacagctta agaactattt atcctggtgt cagtgatact agcactgcat ttgccactcc 240

attctctttc cctgggaaga tacacacaca agggaccaat gaaaagactt ggcaagattt 300

ccacctttt gagccttcaa aacagaacat gttccaaact taccacctaa gaaatctgca 360

aagtggtcaa atggattaac aagatccagc aaattctatc tggtctagca gttaccatgt 420

gtgatttggt aact 434

<210> 36351
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B5

<400> 36351

cccacgcgtc cggacagata aaaaggtttt atctacccgg gcaaacaagg aggaaaacga 60

ctgggaatga aattacacta ggtgatccaa atcaggtggc agtcctgttt tctgaatggt 120

gtcagatgcg taatcatgta agtgctagtg atgcggcata cactcgtttt gtcacacaat 180

tgcagcaaga tggtctgctg aaggggggatg atatctgtga acgcttcttc cggattctca 240

cggaacttgc tgatacacac tctctagtct gcgagcaaat cgttgctcct ggtggatcat 300

ctcagcaatc accacagcaa cctcacattt cata 334

<210> 36352
<211> 58
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B6

<400> 36352

cccacgcgtg cgaaaagata aaaaagtctt attcttcccg atcaaaccat gcataaac 58

<210> 36353
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B7

<400> 36353

gacacacgcg ctagctagct taccttgcca ttacctcttc gcctagctag cctgccaggc 60

gcggcacgtg ccaccggcat ctctgctctg ctctcgcaag cacacgcccg gccgactgcc 120

acagttgcca tggcgaccat agccacgatg gcgctgctga agcccgccgt caaggccgcg 180

gcgcggccag cgccgtccac cagcagcgga aacctctcgc tgcccgtccc ggagcatgcc 240

gccaaaaatg ctgctgtgtc cgcctgcgcg tcatccacac tggccggcgc cttcttcact 300

gcgctagcgt cgtcgaccga cactgcgctg gcggacgtcc ctgcagccga cgccttaggc 360

gacagccgtg gtcagctgct gctcatcgtg gaggctcccg tcatccagtg cgttatgtac 420

aacatt 426

<210> 36354
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B8

<400> 36354

cgacggcggc gcgctcccgc tgtccaagcc ctacgtcgcg tccctcgccg tgatcgggtg 60

caagtcgaac gacgccatca ggctgcgcgg caactacttc ggcccgccgt gcgtgacggt 120

gacgccgctc caggtgctgc agggctacgt gaaggacacg agcttcgtcg ccggctgcaa 180

ctcggccgcc tgcaacgtca cgacgatccc cgaggcggtc caggcggcga gctcggcgga 240

ctccgtcgtc ttgttcatgg ggctggacca ggaccaggac agggaggaag gtgaccggct 300

ggacctgacg ctcccgggac agcagcagac ccttatcgag agcgtcgcga acgcggcgaa 360

aaaaccggtg atcctggtgc tgctctgcgg tgggcccgtg ga 402

<210> 36355
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C1

<400> 36355

cgtagacgtg ccaaatataa aggtcgctga tccgcagtcc aaacgcaaga gcggtggcta 60

cagcttagat gagtgggacg aggagtacga ccgagggaag acgaagaagg tgcggagatc 120

aaagcaagac tttggcgggc caaacccgtt ccaggaggag gcggactacg tatcgcagcg 180

gaggacgaag cagaaatcct accgaggcaa gtcttggaac aagcgggcct aacacggtag 240

tagaggggga gttgagagaa tacgcgagag agaatccctg gacgcacatg ctgtttgttg 300

ttacgtttta gcacccattg gtgaaggaga tttacgttta aaaaccatat ccgtcgtcgg 360

tacggtagtc cccattagtt gtcgacgata tgacgttttg tgcagttttc gtaga 415

<210> 36356
<211> 325
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-A12

<400> 36356

gatggcttct atctccnctt cggttcgggt tctggttcgt gaggatcttc cggggttcgg 60

tttgttgggt gagcggatcg agatggcggc gtcggatgtt gagtaccgct gcttcgacgg 120

cggcctcgcc tgtgccacgg acgaccactc cctgcacaac gccttcagca cctacggcga 180

ggtcctcgag tccaagatca tcctcgatcg ggagacgcag aggtcccgcg gcttcggctt 240

cgtcaccttc tccaccgaag aggcgatgcc gaacgccatc gagggcatga acggctagga 300

gctggacggt cgcaacatca ccgtc 325

<210> 36357
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-C10

<400> 36357

atggctccct ccagaattca tgtaacatgt gtgttagttc atgggccttc accaacagga 60

aggatccacc aaggagtttg ttcaacatgg atgaagaata caattcctct ggaatatagc 120

gaagaatgca gctgggctcc catctttgtg aggcagtcaa atttcaagtt acctgctgat 180

ccgtccactc ctattatcat gattggtcct gggacagggc tggctccttt tagaggcttc 240

ttgcaggaaa ggttagcatt gaaacaatct ggggcagaat tgggcacttc aatccttttc 300

tttggatgca ggaaccgtaa tatggactac atatatgaag atgagttgca aactttcctt 360

gaggaggggg cgctttctga gctaattgnt gcattctctc gggaagggcc aacgaaagaa 420

tatgtg 426

<210> 36358
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G8

<400> 36358

gtcccacacc gtcgaggagt tcctgcaggc tgccttcggc tacgccggcc tcagctggaa 60

ggatcacgtg gtcattgaca agaagtactt ccggcctgca gaagtcgaca gcctcaaggg 120

ggacgccacc aaggcgagga aggtgctcaa gtggaagccc aaggttgggt tccaggagct 180

cgtggagatg atggtcgatc acgacattga gctcgccaag aaggagaagg tcctggtgga 240

tgctgggtac cgtgatccca agcaacagcc atagaaacat cacagttgct tcttgctctt 300

gtggggctcg gattcaaatt gttcccctca tacatggtgg ttctcagggg tagaggttga 360

ccgaagttac tatcgatatt tatcctggta agaaat 396

<210> 36359
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G9

<400> 36359

ggcatcgaaa catggtatat aaataaagga cttgacgatt tgtaacgcag tagctggtgc 60

gtgcgtggtg tggtggtaag aaattcttct gctgtctgtg ttcttgtaac ctcctcattc 120

tcgcccaccc tgatggtaca tgtaccgtgt acgtagtctg ccgtcgggcg ctgatcatgc 180

tcgacaagtc tagtgtctgc attatactcg tcatacccat caatacaaaa gttagtctaa 240

tggtgaacac aaagctggag agtaccatgg tgagcacaag ccaaaagcac aaagaggggt 300

tcctagacaa agtcaaggac aagaatcatg gtgagcgctg taccggatcc agccttacga 360

acaataacgg caacaagaat aatgagcatt ggcatgacca tagtcatgac aactggacca 420

gcatttacaa cgattaaact 440

<210> 36360
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H1

<400> 36360

cccacgcgtc cgctcgtcgg gctcgggcgt tccggaagaa acaagcctgg aaaatatagg 60

gtatataaac aactggacca aacccaagtc cagacccgca gcgcccgccg gaggcggagg 120

gaaccgagcc ggcgaccggc agaccgcaga gaagaggcct ggagccgacc gcagagaaga 180

ggccaggagc cgaccgcagg cagccgccac cgcaccagaa cccgaggtct cgaggcaatc 240

gagcgcacgc gggtcggggg ctgcggccat gtcggtgagt tgcgggctcg agtgggtggt 300

gtgccttggc tgcacgcggt gggcgtggaa gcggctcacc tacatcggcg cctacgacag 360

cgagacgtgg ccgccggcgt acgccgacga gttcgagccc gtgccgcgcc tctgacgcgc 420

cgtgctcgcg aactacgacg aggagc 446

<210> 36361
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H10

<400> 36361

gaagttattg ctctgcccat aactggtggt tacaccaagt atttggaatg gatcaagaac 60

agcacccggg acaagtgatc tctttttttt ttggagctcg acataatgcg atgatcgaag 120

tgcccatggc tccttacctc ttccagtgtc ttgcacacaa gggagtatcc tctcttgacc 180

tggacatctc aattacgttg ctgtaccgaa tccatatcta ccatcttcag gtaacaagtg 240

atttggtgtc ccgtgtgggt aatccaaatg catgcattgc tctgagtatt gacaggttgg 300

ctagtgtaac gtgtaagtcc aaaccatatc gtatccaaac atgcgtattg taggtctttg 360

atcgatattt gtgccgagtt ta 382

<210> 36362
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H11

<400> 36362

cgactccacg cttgcgaaac acatacgtcc tgactgctag acgacaggtt cagcagatat 60

ctcacgtcga cctcgctagg ccattggggt aacctccgtc tatagtccgt gccaccatag 120

acaccggcat cttatcacaa tgcaagccca cgctcgctat cgactactgt atcatctctc 180

tatactgcga ccaatcatct gttcaattga ctgtcacttt caaccatact attggtgcaa 240

cctctggtga tctcaa 256

<210> 36363
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H12

<400> 36363

gcgcccacgc gtccgcccac gcgtccgccc acgcgtccgg cgatgacgat gacggagaag 60

atactggcgc gggcgtcgga gcgcgcggcg ctggagcccg gggagaacgt gtgggtcgac 120

gtcgacgtgc tcatgacgca cgacgtctgc gggcccggcg ccttcgacat cttcaagaag 180

gagttcgggg aggacgccag ggtctgggac cgcgagaagc tcgtcgtcat cccggaccac 240

tacatcttca ccagcgacga ccgcgccaac cgcaacgtcg acatcctcag ggacttctgt 300

gcggagcaga acatcaagta cttctatgac atcaaggacc tcaccgattt cagggctaat 360

ccggactaca aaggcgtctg ccacatcgga cttgctcagg aaggccactg ccgaccaggc 420

gaggttctct tgggcactga ttctcataca tg 452

<210> 36364
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H2

<400> 36364

gcgctacact agaaagggaa catcggatgc ttgaaaccat cacaactggc tgcattagga 60

atgatgcatg gacttggata ctagggtcta actgacgact gagatcgtca gcctcaaggg 120

ggacgccagg ga 132

<210> 36365
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H3

<400> 36365

cctccgctcc ctagcaaagt taaatcagag ctgctgacca taacagcttc cggcattatg 60

gcccatggat gtcctaggat acctgcgaat aattcaccaa cttgaatgac caacagctac 120

aagtgattag gccctaccct attaaatata cgaccttacg tactcactga tttgaaagaa 180

tcagatcttt tatatggtca acgctatacc atcaactgta cgtagttgct cacccatgcc 240

t 241

<210> 36366
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H4

<400> 36366

ggcttggaag acccacgcgt ccggctactt ttacacgtag atgctggagg aggatgtgga 60

agttccagtc tcatctgcaa atgaagctcc aaacgatact atgaagatgg acacagatga 120

tgtgccaagt gatcctgctg ctggatctga tgtgactatg caggagcagc ctcctgcagc 180

tggaaatgga gcacaagata atgaggaaaa gtctgtttcg atggaaactg atgcaaaggt 240

tgagccgtca aaaaagaaag ttaagaaaac tactgttccg gtccatgagt tggtctatgg 300

ggccttggct gcagctgacc tgcagaaggc tgtagagaaa gagtatgaga tggctcttca 360

agacagagta atggaagaaa caaaggagaa gaagaatgct tgtgaagctt atgtgtatga 420

catgcgtaac aagctatatg acaagtacag tgattttgtc aca 463

<210> 36367
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H5

<400> 36367

cccctcgtcc ctttcctgga aacggatctt aggtcgccgt cgctgtcgag tactccacgg 60

cgccgagacg tttcgtcgtc gcctagacat tccacgccac caccgagtac tccatcttcc 120

ctctcaggta cgagttccca tctttcgagt actcgtcgcc gccgctgttt tgccctttc 180

cacgccgtcg ctgctgcagc agaaaggatg caccgccaga aatggagtcc ccccagaact 240

ggatgaccaa gctcttgatt ggccctcgcc ggaaatggag tccccccagg cgcaaccaac 300

cttatccctc tcaacgagat agttgtcgac atcaatggaa catttgtgcc ttcactgagt 360

gctcccgcgc caaccaacac aggcttctcc ctcaccattg atgaggtaga caacacggtc 420

acttggtgac aaaacgcagt tta 443

<210> 36368
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H6

<400> 36368

tgcatcgttc ggtagacgtt cacgttttcg acgctgtcgc ttcctgatct ggggccttac 60

taatccgcgg tgacttgccc accggctcgc tgtcctgctc ctcgatttca cacctgattg 120

ctgacacaga tctgggctag cctgcatcgc tcgcaccgtc ttgtgtgcaa ttctgcttgt 180

cattggaaac tatcccctgt ctcaccgggt caagggcacc ggcagataca ctactgatgt 240

ggccatgcct gacacctata cgtccatggc tg 272

<210> 36369
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H7

<400> 36369

cggacgcgtg ggcgaagttc attctaaggt tgctgacctc accggagtcg gagaactaag 60

gctatgagtg acaaaatctt gcaggcaaaa cgtggaccaa cttaaatcag cagcagcgtc 120

aggtggttag gcgctagcga attaaattaa ggccggccga acctcactgt cttgaaagat 180

tcagatgttc taatgtgtaa tgctttacca ccagtggtta gtggttgctg gttcatgctt 240

cccacgttag agtcacgatt ttttttttt gaggctggag aaagatctga cgatacttca 300

tgtgtgcttt ctttctgacg atggttccat acaagggctt accaaag 347

<210> 36370
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H8

<400> 36370

tcggggatga cttgcctcct gaagcacggc atttactcct caaattggat aagcaaactc 60

tgattgaaca agcacgcaag aatttctact gctcaaagtg caatgggttg cttctggaaa 120

gttttgcata tattggtata tatgggaagt cattgcagca agaagcttca tatatttgtc 180

gactgatgac agctattgaa tcaagagtta cgcaaggaga gcaagatggg gctcatgacc 240

catcaattca tccctggtga ggccttctat ccacaaaaga tggcttcctt acacttcttg 300

actgctttat aaaagcataa tcattatgtg tgcttcagaa tgtatgagac aatgcacggg 360

caagaga 367

<210> 36371

<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H9

<400> 36371

gcgcctgtcc tcgctcttgg accaaggccg tggctgcggc gtacggaggt ttagcgctgg 60

cgggatccgt ttcgtgacgc tcgagggcgt ctgcagtttg gactcccgtc tggagtcgct 120

ggtcacctgc cgttgagcca acatgcacgt gacaaagagc ggttcgcggc gcgttcgatt 180

ggaggccgta tcgcgcggga gctttgcggc tccgatggca ttggactggg atatattcag 240

cgtggcgccg ttggaactcc tgctggacgt gacgaacgac cgcggtgaca cgatggacta 300

tcagtcgttc tgcatcgagg agct 324

<210> 36372
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A1

<400> 36372

gattcccggt cgagcacgcg tccgcggacg cttggccgga cccttggccg gactcttggg 60

tccgattcca aacccaaatc accgttccct ccaaatccca ttccctcggc ccagaccagc 120

tcgcgaaatg gacggcggcg gcccgaaggc gaagaaggcg gctgctgggc aaaagctagg 180

cggcggcggg ccgaaaagga agccggtgtc gcggtcagtt aaggccgggc tccagttccc 240

cgtgggccga atcggacggt acctgaagaa agggcggtcc gcgcagcgcg tgggcacggg 300

cgctcccgtg ttcctggccg ccgtcctcga gtacctcgcc gttgaggtcc tggagctggc 360

tggcaacgcg gcgcgcgaca acaagaaaac ccgtattatc ccgcgccacc tccttcttgc 420

catccgcaac gacgaggagc tcggcaagct gctgggtggg gtcaccatcc 470

<210> 36373
<211> 263
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-A11

<400> 36373

cccacgcgtc cggatcctgc caatattttt gttactccaa ctgtcnatac ccccaaatca 60

ccctatctca aatgctatct tatacaagat actggggccc tcctttcaac tgctccaaac 120

atcaacaaaa ccttacatct tctcctacta caatcacatc attaactaca cccacatcct 180

taacaaatcc tccgataaca tcaaacatga ctacgctact actaatcaca ccattattat 240

tcctacacca tcttatataa ctc 263

<210> 36374
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-047-Q1-K1-G7

<400> 36374

cccacgcgtc cgctcgccgg gctcgggcgt tccggaagaa acaagcctgg aaaatatatg 60

gtatataaac aactcgacca aacccaagtc cagacccgca gcgcccgccg gaggcggagg 120

gaaccgagcc ggcgaccggc agaccgcaga gaagaggcct ggagccgacc gcagagaaga 180

ggccaggagc cgaccgcagg cagccgccac cgcaccagaa cccgaggtct cgaggcaatc 240

gagcgcacgc gggtcggggg ctgcggccat gtcggtgagt tgcgggctcg agtgggtggt 300

gtgccttggc tgcacgcggt gggcgtggaa gcggctcacc tacatcggcg cctacgacag 360

cgagacgtgg ccgccggcgt ncgncgacga gttcgagccc gtcccgcgcc tctgccgcgc 420

cgtgctcgcg aactacgacg aggagc 446

<210> 36375
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-F3

<400> 36375

gctgtggaag atgcctttga actgcttcat gagatcaact aacgtgtccg gactgggcta 60

tgggttggcg attgtttcat ctacaataat tcttcatggc gtcttaatta ctgtgtagga 120

cgagaggtca caactttgtt tcacttggat cggccaatgt atttattagg atatcttgca 180

aaccaaagcc gtgtctatct tattgataag caatttaatg ttgtggggta tactttactc 240

cttagtttga tcgaatctaa aacacttgtc atgcgtgcgg atttctatcg cgcgaatgat 300

gttatatcat ctataccaaa ggaacaatat gacagtgtgg cgcgtttctt ggaatcacag 360

tgaatgttgg acgaagccct cgagatagca actgacactc attacaagat tgacctggct 420

gtgcaacttg gtcgacttga aa 442

<210> 36376
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-F4

<400> 36376

aggactcctg ggcagctcaa ggctgtgctg gcctcattaa cccttgctcc ccaggacgtg 60

atgaatgctc tcctggaggc tctctttggt ggtgtgggta agggattcac caaagaggtt 120

gtgaagaaca agaagtacct tgcagttgct gtgccagatg atggtgccca gacccttctg 180

gttcacgcca ttgatgcttt tggtgggaag tgcaaccctg atgcgctgaa agaggttccc 240

gttgtcctca aagccctcta cgatggagat atcctggacg aggaaaccat tgtggactgg 300

tacaatgatg ctgtcgcagc tgggaaggac tcccaggttg tcaagaatgc caagccgttc 360

gtcgagtggc tccagagtgc cgagtctgat gaagatggtg acgacgagtg aagaagccac 420

gctgctctac tgctaatggc caaactcgat aatatta 457

<210> 36377
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-047-Q1-K1-F5

<400> 36377

ctctcctcct cgcgaagtat cggcggcggc tagcgcggca ggctagagcc tcgttgctga 60

ggaggggaga tggcgggtat gggcgatatg ccgatgaggc ctgcgcggcc gggcccgccg 120

atgcagcacc gtggtccgcc cccgatggcg cgcctccgcc ccgaaccaat cgaccgcgag 180

aagacctgtc ctctgctgct cagggttttc acaagggttg ctggtcacca ccaaaatgaa 240

gagtttgcag tgagagggaa ggaaccaaag gatgaagttc agatttacac atggaaggat 300

gcgaccctac gcgagctcac tgatcttgtg aaagaggttg ctcttgcagc aagaaaaaag 360

aatgcaaggc tntcttttgc atttgtatac ccagacaaga atggtcgatt tggtgtcaga 420

caggtgggtt cg 432

<210> 36378
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-047-Q1-K1-F6

<400> 36378

cgtggttctg gtggttcacg tgaatacaac tgaagaggac ctccaccagg aacaggccgt 60

tgttttaact gtggagttga tggtcactgg gcaagagact gtcaggctgg tgactggaag 120

aacaaatgct accgttgtgg cgaaaggggc catatagaaa gaaattgcca gaacagtcca 180

aggaacctca ggcgtgagag aagctattca cggtctccat ccccacgccg aggacggggc 240

cgcagccgga gctacagcag aagccggagc tatagccgat ccagatccac gactggatct 300

actaggggtg gacgccgaga ccgtgatgag aggagatcaa tgagtcttag ctacagcagg 360

agcgcaagcc ctangcgttc tgtgt 385

<210> 36379
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-F7

<400> 36379

atgctgtcga cggatatgca tagaagagat cagatatgca tagaagggag taaaactaag 60

atttgggtaa aaatcccctc tcccgtattg tatttcaatt tatacgtata tatttacggt 120

gattgtttta gcatattcta gtatctgttt tttcttatac ttaaagaatt gaattgtgtg 180

atgatagata ttttcatctg gacacagagt aaagaattct cgactctctt gacttgacga 240

ggctatataa ctagagacca ttagaggaga actgaagact gagagcattc tctgcttata 300

atctttattc ctctatattc taaattgctt ttttcaatcc ccttgcacct ggattcaatt 360

cgaatcccac accatgtggt gttcttcctc tatcgaataa acgttgtttc gcttgtctaa 420

tcatcagttc gatagggcat tgaaag 446

<210> 36380
<211> 103
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-F8

<400> 36380

caagactgta atgtctattg ctacctaatg tttctcactt tgtcattttg gacacatgtt 60

cgacctattc aattttaatg agatgcctga tgaggctact tgc 103

<210> 36381
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-F9

<400> 36381

gcgcggacgc gtgggtgctc cattctcagc cgccgccaat cccttcccgt gctccgcaac 60

cgctgagtga gaggaagaga tggccggcaa gggcgatggc ccggctatcg gcatcgatct 120

cggcacgacg tactcttgcg tcggcgcgtg gcagcacgac cgcgtcgaga tcattgccaa 180

cgaccagggt aaccgcacca cgccctcgta cgtcgccttc accgactccg agcgcctcat 240

cggagatgcc gccaagaacc aggtcgccat gaaccccatc aacaccgtct ttgatgccaa 300

gcgtctcatc tgcaggaggt tcagagatgc gtatgtccag agtgatatca agctgtggcc 360

cttcaaggac atctctgggc ctggtgagaa gccaatgatt gttgtccagc acaagggtga 420

g 421

<210> 36382
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G1

<400> 36382

atgctgtcga cggatatgca tctatagaga tcagatatgc atagaaggga gtaaaactag 60

gatctgggta aaaatcccct ctgccgtatt gtatttcaat ttatacgtat atatttacgg 120

agattgcttt agcatattct agtatctgtt ttttcttata cttaaagaat tgaattgtgt 180

gatgattgat atcttcatct ggacacagac taaagaattc tcgactctgc tgacttgacc 240

aggctatata actagagacc attagaggag aactgacgac tgagagcatt ctctgctcat 300

aatctggatt cctatatatt ctaaattgc 329

<210> 36383
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-047-Q1-K1-G10

<400> 36383

gcgcgctctc aagcttcaaa atcccactag cgaatggaaa acgggagaag ctaggaagca 60

gcagccgcgg cgtttcttcc ttgagcgttc gccttcggct gctcaacgcg tgcttggttt 120

caggagagcc ttggtggcat ctctgtttca tggccgagat ctgctgtgag gcggcggcgg 180

cggcgtcgga ccagaagggg gagtgcgccg gcagccgcgc ggcgcggcgg cggaggatgg 240

agattcggcg gctcacggtg gtggccgaag aggcgtccgc caagaggcgg atgctggagg 300

cggatganga agacgcggtt ggggggcgag cgccgaggta cggcgtgacg tcggtctgcg 360

ggcggctgag agacatggag gacgcggtga ccgtccgttc ggagttcatc aacggccacc 420

acttcttc 428

<210> 36384
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G11

<400> 36384

gcgcccacgc gtccgcggct ggagatgaca tttagggcgg gctctatgtg gttcctaaga 60

tggtgtcgca gggggtgcct ctggcgaatc tccacttacg atccacgaga cctggggtgg 120

atgagatccc gttaccactg cttgttaagt tctcgatgag ctgtaggatc tttcgagaca 180

acgcgcttta ccagacagga ctgttccttt tccaattggc tcaaattgcg ttcaacaatc 240

gaaactcagt ctccaacggt gccagaatgg aacgtgctct caagttaatt tggagtacac 300

tcacttgatg tacttcatgc accaccgata attcccaagt cactcaacag agcctacatg 360

acctttctat gctttcgctc taatgaccac tcactttggg ttgttttgct gtgaaagaaa 420

ca 422

<210> 36385
<211> 96
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G12

<400> 36385

gcgagggact tgcgctagct gtacaggtac gttttagcag acttcagaaa caagccgctg 60

tcggcaaacg gggagctcac ttcagacgat ccaaat 96

<210> 36386
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G2

<400> 36386

ggccggagca gccgcagtcc cggcgatccc tccgactgtc gccctcatac ttactcgtga 60

ctgccttggg ttctctttcc aacaatcgag atgagccgtg gcggtagcgc cggtggtggt 120

caaagttctc tgggttacct ctttggaagc ggtgagcccc ccaaaccagc agtggcacca 180

gctgtaagtg ctccacctgc tgctgcaggt gctccacctg ctgagaaacc acctgctgca 240

aagcctgatg gcaccagtca gattgctgct ggggttacca gccaaaccaa taactaccac 300

agggccgacg gtcagaacac cggaaacttc cttacggacc gtccttcgac caaggtccac 360

gctgctcctg gcggtggctc ttccctggga tacctgcttg gtggcaactg atgccgctca 420

ccaagctatc accccacact gtcgccgcat gcttttc 458

<210> 36387
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G3

<400> 36387

tccacgcgta cgctcgccgg gctcgggcgt tccggaagaa acaagcctgg aaaatatatg 60

tgatataaac aactggacca aacccaagtc cagacccgca gcgcccgccg gaggcggagg 120

gaaccgagcc ggcgaccggc agaccgcaga gaagaggcct ggagccgacc gcagagaaga 180

ggccaggagc cgaccgcagg cagccgtcac cgtaccagaa cccgaggtct cgaggcaatc 240

gagcgcacgc gggtcggggg ctgcggccat gtcggtgagt tgcgggctcg agtgggtgga 300

gtgccttggc tgcacgcggt gggcgtggaa gcggctcacc tacatcggcg cctacgacag 360

cgagacgtgg ccgtcggcgt gcgacgacta gttcgagccc gttccgtgcc tctgacgcgc 420

cgtgctcgcg aactacgacg aggagc 446

<210> 36388
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G4

<400> 36388

cggaattcct cgggggtcat tccacttcca ccaatctgtc tcccaatctg tcttgctgct 60

ccaattcgct ctctttactc ggccagcgga aggtgagagg agggcgagat gacggcggag 120

aaggcggacg cggggctttc cgacttcgac gcccacttgg atcgcctctt cgcttgcacg 180

gacgccggct ccgacggcaa ggtgaagctg ctgctcttcc tggccgaccg caagcctggc 240

tcctccctct cctggtgccc cgactgcaac gtggcagagc cggtgatcta cgagcggctg 300

gaggcactgg agggcaagga cgcggtgctc ctgcgcgcct acgtcgggga caagcccact 360

tggcgcgacc cggcgcactc atggagggtg gaccacaggt tcgggctcaa aggcgtgcca 420

acgc 424

<210> 36389
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G6

<400> 36389

gcgtactgat atgtcaatat ccaagagctc tccttcctac ttggccaagc tgcaatggga 60

ggaagaaacc agtactcagc atcaacggct ctctgagcaa ggatatcgtt gagaatctgt 120

agtaaacctg gaaatacaaa ttatgctctg gaataacatc aggtttctcc aagacaacaa 180

ctggtcttac gacaatgtca aggtgtgaat acttaacctc ttgctgctgc tgcgttgcaa 240

agggagctga aacttcgata tcctttgacc cttcaggcag aacaaccttt acgataagct 300

tttcaatgag aatctcctcc aatggacaac caaatgtgat attgagaaat ctc 353

<210> 36390
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-F2

<400> 36390

acgactcgtc ctggcactcg tcgtaaattt ttaagcttta tgtattgcca tgtttttgag 60

atgcaacgaa gcataatgag gagtttatat gatctgaagt atctatgttt gttgatatat 120

ccatgtgaag agatcaaagt tgtgtgattg ctgagtccat ctattgagca aatgctgcat 180

tgtatctatt caaatcatac ttctgaatat tgattgttct gcatgtattg ctatagcatg 240

acaggatatg ttagatagga ttgaacaaat tgcattggta tttaatatgt caccagaagc 300

gaattgagga ggctgtgtta tctgaactgt cacttgatga tacatcgttc atggacttca 360

aa 362

<210> 36391
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D7

<400> 36391

cggacgcgtg ggtctccctc cgccactcct tccatctgct cgctcccact ccccgggtag 60

ctactaagcg tggcgtccgt taccgcccgc gccccggtcg cggcccttcg cccgtctgcc 120

gcatcgctca agtcgtcatc tgccttcctt ggccactcta gccgcctcgg tcgcaccgag 180

tcacccacga ggcgcaacct caaggcagag gccaagggcg agtggctccc cggccttccc 240

tgcccctcct acctcgacgg catcctggcg tgtgacaatg gcttggacct gttgctcctg 300

gcggaggacc catagaacct gctgcgtttc gtgcaggcgg agctggcgaa cggtcggagg 360

tccatgcttg gcgtgctcag tatgctcaat ccggatgtgc tgaccaaagg cggactgatc 420

a 421

<210> 36392
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D8

<400> 36392

aaaaaaaaaa aaaaaaataa attaaaaaat ttaaaaaaaa aaaaaaaaaa atgaaaaaaa 60

aagaaaaaaa aaaaaaaaga aaataaaaaa aggaaagcag caagcgataa attaaaggtg 120

ctgtgcgata acatacatcg cattacgaat ctctgtgatc cctatgatgg acttgaacgg 180

tccggtaaag cacatttttg gactcatcta ccaggatacc cgcgtaatgc tcaacatctt 240

tgtgcagaac gtaattagct actctgtaac ctataacgag caaggccgtt tgaagagcgt 300

caccgag 307

<210> 36393
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D9

<400> 36393

acagaacgtg caactgatgt tgtcttctct tctgctgatg actgcttagc aacagcttca 60

gctgatagaa ctgcaaaatt atggaaacca gatgggtcac ttttgatgtc ttttgatggc 120

caccttgatc gtcttgctcg ccttgctttt catccatctg gaaagtacct tggtacagct 180

agctttgaca agacttggag attgtgggac atcaatactg tcaaggaact gctactccaa 240

gaggggcaca gcacaagtgt atatggagtt agctttcacc ctgatggttc tttggcagca 300

tcttgtggtc ttgatgcata tgctcgagta tgggatctga gatctggaag attgttcttt 360

acactcaagg gccatgtgaa acctgtccta ggagtcagct tctctactaa tggttatctg 420

gttgcaactg gaagtgaaga caatttc 447

<210> 36394
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E1

<400> 36394

tgcactcctt catccgctgg tgtatcggat gctggatcct cgttcaagtt acaacagatg 60

gttcgaaatg tacagcatgg gtttacacgc tgttttaagt gaagactgta ccgatggaca 120

atggccttta cttatacagc aaagctgctg aagaaacaaa tgttagcatg cacaagcaca 180

actaccagaa ttccagaaac caagctaatg cctatgtcaa actacctaat tgggaaaacc 240

tgtagctttt cggcacttaa gcaaccaacg tacctctacc caattgaact gtcagcatac 300

cttaaat 307

<210> 36395
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E10

<400> 36395

caggatgggg ttgaagcaac agtttaactc cttgaaggaa actatcagac atctcagcct 60

tctaccagca ggtggtggtg gaatcctggc acacgctgtt gcacgtgttg cttcttcaat 120

caagattaaa ggcgataact ctggagatgg cattgagtcc cttataaaca aagtagaaag 180

catgattgtc aatggagact tgagtacagc ggccgatgcc ttggagcaag ggctacatgg 240

aactgaagca gaggagatag ctaccgagtg ggtgaagcaa gccaggaaac gcgctcttgc 300

agagcagaca cttgctctcc ttcgcgcttg tgcttcttcg accacgttct cgtgattttg 360

acaaccattt acccttcctt ttcttcgacc gcatttgccg gtactccttg caaccgcata 420

ttttttcccc agaccatgct gcatatgtgt g 451

<210> 36396
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E2

<400> 36396

aggacatgta ctatatcacc tgaatgcgtt cgaaccatct acacctgtga aggagactgt 60

catactcatt gaccgcatac gaaagaacac acgaaagtag cgcgaaggct ctgtgctgaa 120

aaaatgagcc ttcaaagatc aaaacgaaat ctcttgttaa cactctgctt agccttgaag 180

attgcacgat aagctgctta tggcacgctt gatgcctgct gttccactaa gcactatttt 240

actttgacat tcctaactca agcactatca acatgttgag aaggaggaac agtgtccata 300

gaagtgctca ggtgatcaaa tggatgctga gcagacggca atgaaataca atgagaacat 360

atgaactgat ggcatgtgca ctccagaagg ataatagag 399

<210> 36397
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E3

<400> 36397

aggacgagga gggcaaccct gcgttcgccc tggtcaactt ggccactggg ctcgccatca 60

agcactccct cggccagtcc cacccggtga agctggtgcc gttcaacccg gagtaccagg 120

acgagtcggt gctgtggacg gagagcggcg acttgggcaa gggcttccgc tgcatccgca 180

tggtgaacaa catccgcctc aacttcgacg ccttccacgg cgacaagggc cacggcggcg 240

tgcacgacgg caccaccgtg gtgctgtggg agtgggccaa gggcgacaac cagagctgga 300

agatcctgcc ctggggcgac caggcctacg ccgcgggagg cagcagcgcc gccaacgcgc 360

cccgcttcgg cggcggctgc gagcccaccg tacgcatcta ctgcaaggcc gacgaggggt 420

<210> 36398
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E4

<400> 36398

accacgcgtc cgcccacgcg tccgcagcta gctagcatac agacgaataa tctcttcttc 60

acctcactaa caccagctag caactctttc tctcctgcaa taatggccgc tcgctcctcc 120

tcctcccagc cgcagctggt cgcggcggcg gcggtcctgg cagcggcgct gctgctgctg 180

gcggcggggg ccgggacggc gtcggcggcg gtgagctgcg gcgaggtgac gtcgtcggtg 240

gcgccgtgcc tcgggtacgc gatgggcagc gcggcgtcgc cctccgcggc gtgctgcagc 300

ggggtgcgct cgctcaacag ccgcgcgtcg tcggcggcgg accggcaggc cacctgcaac 360

tgcctcaaga gcatgacggg ccggcttcgc ggcggcgtca gcatggccaa cg 412

<210> 36399
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-047-Q1-K1-E5

<400> 36399

tgcaatcctt cacccgctgg tgtattgtat gctggagcct cttacaagtt acaacagatt 60

gtttgaaatg tacagcatgg ttttacacgc tgttttaagt gaagactgta cggatggaca 120

atggccttta cttatacagc aaagctgctg aagaaacaaa tgttagcatg cacaagcaca 180

actaccagaa ttccagaaac caagctaatg cctctgtcaa gctacctaat tgtgaaaacc 240

tgtagctttt cggcacttaa gcaaccaagg tacctctccc cagttgaact ttcagcatac 300

cttagatcaa ggaccggttg cctgtggggc ttgagatcgg tgtaccgctg aaacgaaggc 360

agccgccaag tccggactcc gtacaacgat tcatctncat aagcaaatag atgctgattg 420

tctctgcagg gtattattgc agacttcgac a 451

<210> 36400
<211> 379
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E6

<400> 36400

cccacgcgtc cgcccacgcg tgtctcgact catgacgata gctccgtcgt tgacctaact 60

aacaccgcgt gacagctagc tctctcgcgc aataatagcc gagaagctga gtgcttgtga 120

cagccgcaga tggtcgcggc ggcggcggac ctggcagccg cgctgctgct gctggcggag 180

gtggccgaga cggcgtcaga ggcggtgagc tgcggcgagg tgacgtcgac agtggcgccg 240

tgcctcgggt acgcgatggg cagcgcggcg tcgccctccg cggcgtgctg cagcggagtg 300

cgctcgctca acagccgcgc gtcgtcggcg gcggacacgg atgccacctg caactgcctc 360

aagagcatga cgggccagc 379

<210> 36401
<211> 99
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E7

<400> 36401

ttactttaca gatttatgcc ggatagtata ttcacgacat tcctctcaac catgacgatg 60

cacaagcaag cacacagtta caagcaagcc ttttttact 99

<210> 36402
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E8

<400> 36402

ggccggagca gccgcagtcc cggcgatcct tccgccggac gccctcatac tttctcgaca 60

ctgccttcgt ttctctttcc aacaatcaag atgagccgtg gcggtcgcgc gggtggtgga 120

caaagttctc tgggttacct ctttggaagc ggtgagccgc ccaaaccagc agtggcacca 180

gctgtaagtg ctccacctgc tgctgcaggt gctccacctg ctgagaaacc acctgctgca 240

aagcctgatg gcaccagtca gattgctgct ggggttacca ggcaaaccaa taactaccac 300

agggccgaca gttagaacac ctgaaacttg cttacggacc gtccttagac caaggtccac 360

gctgcttctg gcggtggc 378

<210> 36403
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E9

<400> 36403

gcgcccagca tacggccaca cttctccgac gtttttatcc ggttctcata agactgacta 60

agggcactgc tggggaaaga ctacggactg gtacggttgt gagacgaccg aacggtcggt 120

ccatgtggag ccataggcgc ctaacagagg gagcaaaacc cttgagcatc catcacaagc 180

atagtaacaa gatggtcaag ttcctgaagc ctaacaaggc agctatcgta ctgtacggcc 240

gctacgcccg gcgcaaagcg gttatcctaa ggaccttcca ccatggaacc agggagcgcc 300

cctacggaca ctgccttatc gccggaataa agaagtaccc aagcaaggtc atcatgaagg 360

actccgctaa gaataccgcc aagaaatcta gggttaaggc cttcgtgaag ctcgtgaact 420

accagcacct catgcccacg cgctacacgc tcgac 455

<210> 36404
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-F10

<400> 36404

ggggaaagtt tttagcgtta gcaatactga tccacaggaa gtagaaaagg caaagaaagc 60

actgaaggag caagaacagt cggtgattga cgccatagca aggcttgctg aggcatcaga 120

tggtgaaagt ggtaaatact aatccatttg tttcttagcc ataggtttat ggaaatttgc 180

aagatgctgc agaaaacact catttctgct tccagtctag taggatggtt gccccaaaca 240

agggtcaagg ggagtggttt tcagatatgt tgtacaatgc atgatgtata tattacgcaa 300

tgttgtagca caatggacat ttgccctcgt aattatagtc aaccttaaat gagatatgca 360

cgcggtcatc ttttgcatgg ccacaagtgg catgaagtaa aca 403

<210> 36405
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-F11

<400> 36405

cccacgcgtc cgcggacgcg tgggatactt taggtcaagg aacatgaaaa cccgtgttat 60

tggttgccca gagactatcg atggggatct gaaatgtaag gaggttccga caagctttgg 120

atttgataca gcttgcaaga tatactctga aatgattggc aatgttatga ctgatgcgag 180

atccactgga aaatactacc actttgtgag gcttatgggt cgtgctgctt gtcacattac 240

gctggaatgc gctttgcaaa cacaccccaa tgctgcactc attggggaag aggttgctgc 300

atagaagcaa acccttaaga atgtcacaaa ctacattact gatatcatct gcaagcgtgc 360

agatcttggt tacaactatg gggttatcct tataccagaa ggcctgattg atttcatacc 420

agaggttcaa aaactcatcg cggaattg 448

<210> 36406
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D6

<400> 36406

ccggggtgga gatcgcgaag aaagtaaatt aggtcatgtc cgacgaagcg gtcagggcaa 60

ggacgacgag gaccgccgag gaagcggcca aggcagttgc agagggtggc accagctacc 120

ggagcatgga ggagtttatt tccagcgtca aagcaaccgt ggcgtcttga ttgcgtcgtg 180

gggctcctga tttgcacaag tttgcgtgat tgcgtcccct actcctctac cctacctttc 240

actgatgggg agtccggaat tgtgacgtag ctagcgcgtg gctggttgca gcgtcaacca 300

aaacagtttt cacaaacgtc agttgctggg aggtcggtag catgtactat cacgtaccta 360

cgccatcaag aatagtgcgt catctggcat cttgtgatgt catcttgtaa tgaaataaaa 420

cacagttgca tttta 435

<210> 36407

<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-047-Q1-K1-B8

<400> 36407

cccacgcgtc cgcaagtttt tgaacggaga tgttggaccc aagaccattc atgttcctac 60

tggggagaag ctttctgttt ttgatgcggc catgagatac aaatctgagg gccatgctac 120

tataatcctc gctggtgctg agtatggaag cggcagttct cgtgattggg ctgctaaggg 180

tccgatgctc ctgggagtta aagctgtaat tgccaagagc tttgagcgta tccacagaag 240

caacttggtg gggatgggaa tcattcctct gtgcttcaaa gctggtgagg atgctgattc 300

gcttggcctc actggacatg agcggtacag catcgatctc cctaccaacc tcagtgagat 360

ccgtcccggc caggatgtga ctgttactac cgacaatggg aaatctttca cttgcatcgn 420

tcgctatgac actgangtgg agctggcgta c 451

<210> 36408
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B9

<400> 36408

cgaagatttt ctccaattag ctattggcca gtagtgttcg ttgtgccttt cgcttgagct 60

ctctggacag aacaataatg caggaacagt aggacagcaa gatcatatgg atacaaatta 120

tcctggaaat cttgcagtag ccactgtaaa tgggaaggag tcctcaaata aggatgtgag 180

agggtttcct aaccccaaaa gcttagaaat ctacctgctc catatgttcc atgaaattct 240

taggaaactc agggagaaat ctcgtcatgt ggttcgctac cagagttctg ctcaagctgc 300

acctgacgat tgtggcctgc taagccattt ttgcatgaca gtagctcaca ggatattgtc 360

taacaaagta catttggagc tggaa 385

<210> 36409
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C1

<400> 36409

gggaaatcaa ctttttgtta acccaaaagt gggagaattc actgatggga tggacatcta 60

ctgagggtcc atatgctaat ggcagagaag caggacttac attcaacagt gcggagtcag 120

caaaagcata ttgtgtaaaa catggatgga attatgtggt acggaaacgg catacacctt 180

ttatgaagcc taatgcctac gctgagaact ctaagtggaa aggccctctg aaggcggatc 240

aagcatgagc tctaggcctc caccaacatg tgaccctgtc actggaatga tgcgattctc 300

ctcctgagct ctatagtcta gacctcttgt tcgtgagcct tttctttcaa cagagtgcgt 360

cgtgaaagta cgagctagaa tacgcatcta tcaaa 395

<210> 36410
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C10

<400> 36410

ccaagccttc cgctgacaca taccaccgaa ttttcacaca tttgaatctg agctcgatat 60

gtctaaacag ggtgatataa atgtaaatcc tcgtgttctt cacactgcac aattttatca 120

catgagacaa cccatgcata atatatgccc tctctgcaaa tacactctct ctatggtccc 180

cactctccat atgtgaaacg cacatactag actctctctg tgaacacaca ccatattttg 240

ctctttgaca ccatttctaa agagtgcttt gacaccacat gggtacacat atatggcgaa 300

ctatatataa cacactccaa aacagttcac ccacaatctc acttatatgc cagacacctt 360

aaaacctatc ccaaagacat atttgttttc aatatatatg gcaccgctct ctataatatt 420

acattctaca aaacacatgt atat 444

<210> 36411
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C11

<400> 36411

cccacgcgtc cgcccacgcg tccgcccacg cgtccggcag cagcaagtgc agcacaactg 60

aagacggaca gcatcctctg actgttggtc gtttggttgt aacagtgcca gcaataagat 120

ctctctgcct ccttttcttt tcttttggtg tctcaggggg gtgggcaatg ttccttcctt 180

ctcagatcga tcaccaacaa agtgtttaga ttctaatcca aaacagtaga atggtctt 238

<210> 36412
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C12

<400> 36412

aaaagcgagg ctgcgagagc ggagagagag tgtgagggag gcgccgacgc cgagtccttt 60

cttcatcctg catctgccgc tgtttccgac aggatgtttc tcacgaggac ggagtacgac 120

cgtggggtga acaccttctc tccggagggg cggctgttcc acgtcgagta cgccatcgag 180

gccatcaagt tgggatccac tgcgatcggt ttgaatacaa aggatggtgt tgtcctcgcc 240

gttgagaaac gtgtgacctc accactgctg gaaccaaaca gagtggaaaa aataatggaa 300

attgatgagc acatacgctg tgccatgagt ggacttatcg ctgatgctag aacactagtg 360

gaacatgctc gtgctgaaac tcagaatcat aggttctcat acggagagcc aatgactgca 420

taatcttcga cac 433

<210> 36413
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C3

<400> 36413

aaaccacatg atcttgcatc cctgaaggaa aagcttgtgc acgaggcaaa agagaatctt 60

ggcatggcta tggtctacac tcttgtttca tcagccaaag agtggctaag tgagatatat 120

ggtcagaatg gtggtgatga ggaacctgaa gaaactgaag cagaagagga ggttattata 180

ccacatggtg aagctgttac tgtagagagc tttctggcgt ggagagaccg atttgaagct 240

gagttggcct tacagcgtgc taagtaaact tcctattttg tttacatatt aagtttttct 300

cgatgatcac atgggaatct cttgtttact tgtgatatct tcaatctaat ggtgtttgct 360

tcccatatta tataagtacc caaatgtgtg tttagattat cttttgcatt ttgttgggca 420

tgcagactta tgccaggatc agctcttac 449

<210> 36414
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C7

<400> 36414

agagaaccgt ggcatggcga tggtctacac tagcgtttga tcagccaaag cgtggctaag 60

tgagatatat ggtcagaatg gtggtgatga ggaaccatgg gaaactgaag cagaagatga 120

ggttattata ccacatggcg aagctgctac tggagagagc tttctggcgt ggagagaccg 180

atttgaaact gagttggcct tacagcgtgc ttagtaaaca ttctatgttg tttacatatt 240

aagggtttct cgaagatcac at 262

<210> 36415
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C8

<400> 36415

gacccttacg ccttcgctcg cgccgccgtt tccgccgccg ctacgccccg cacctcgctt 60

catttcgtgt cgccaagatg acgaagcgca ctaagaaggc aggaattgtt ggcaaatatg 120

gaaccaggta tggtgctagc ttgcgtaagc aaatcaagaa gatggaggta tctcagcatt 180

ccaagtactt ttgcgagttc tgtgggaagt ttgctgtgaa gaggaaagca gttggaattt 240

gggggtgcaa ggactgtggg aaggtgaagg ctggtggtgc ttacaccatg aacactgcta 300

gtgcggtcac cgtcaggagc acgatccgcc gcctgaggga gcagactgaa gcatgatata 360

gctctttata ttattggggt ttcctgtagt tgctcttgtc aagcatgttg tgggggcctt 420

atctagtgga aatgtggaat cactgtactg 450

<210> 36416
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D10

<400> 36416

gcggaatgaa tactgtaaag gaagaggcgg attttactgc tgactgcgaa atgactgaat 60

cagctatttg ggcctgaacg ttctggatac ctgatgcgct cacttacatg aatattgatg 120

tgcaattcgt acgaaatggt ggctttacta atgatcactg actatagtgc ccgtactccg 180

gtggttaaga gacgacttgg aggcttgctg acatagctca tgacatcgtt ctgtttgaga 240

ccattgctca caagtgcgtt gaatctgcaa agggatacat ccatggtgaa caatatacat 300

catactgcaa aacagttgac caacaagctt acttttatgc caaaaactct aaaatcgatc 360

ctaaggacac atttgcgttc aatatatatg gtaccggacc ctctaatatt tcatactact 420

ctagttgcaa ctggaagtga agacaaaagc 450

<210> 36417
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-047-Q1-K1-D11

<400> 36417

cccacgcgtc cgcccacgcg tccgcggacg cgtgggcagc ccgccgcgca gagcagcgca 60

gcgcagcgca ggcgccctcc aactccgggc tccgcaaccg ctgctccccc tccctccctc 120

cctccagctc ggcctgcctc agcccgcgcc gcgcgatgtc agaggaggac gaggaccagc 180

cgccgcccaa gcggccgtgc gcgtcgccgc ccgcggacca ggtgctcgac aacgtgctcg 240

agacggtgct ccagttcctg gacgccccgc gggaccggag cgccgtctcg ctggtctgcc 300

gctcctggca ccgcgccgag tccgccaccc gcgactccgt cgccgtccgc aacctcctgg 360

ccgcctcggc cacccgcgcc gcgcgccgct tccccaacgc gcggagcctn ctactcaagg 420

gcccgccgcg cttcgncgac tt 442

<210> 36418

<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D12

<400> 36418

ctcaaagatg atgctggagg ggtcaaatcg ttggatccat tcagtgcacc ggcattcggg 60

cttggttgtt gctggtttgg cagcagatgg cagacaaatt gtttcaaggg ccaaatcaga 120

agctgccagt tatgaaaagg tctatggaga acccattcct gtgaaggatt tggcagatcg 180

tgtagcaagt tatgttcatc tttgcacgct gtactggtgg ctcagacctt ttggttgcgg 240

tgttattctt ggaggttatg atagggatgg accacagctt tacatgatag agccctcagg 300

agtttcctat aaatactttg gtgctgcatt ggagaaggga aggcaggccg catagactga 360

gatagaaaag ttgaaacttt cggagcttac ctgccgagaa ggcattgttg aagttgcaaa 420

gataatttat ggagtgcatg acgaa 445

<210> 36419
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D2

<400> 36419

accacgcctc cgctgaatct gtgcatggga ctccttttga aattgactgc tctgaacgtg 60

aattttctga gtatgatgag aagggagaat gccccccttga gctaggcaag ctgcggtcca 120

cattcagagt caagcatgag aggggtggga agactagatt tgtctagatc gagtgacttg 180

gaatctgaca gatattggag taggccttgt attaatggta gatatgggct taaggccatg 240

cttgaaccga tctcctgtct gtactatctg cagatgctgt ggatgccacg aaccatgcga 300

agcttttgga gatagcgtcc acaggagcat taccctggac cggaactggt ctttataact 360

tactaccaat gcatgaacat ggggttggct 390

<210> 36420
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-047-Q1-K1-D4

<400> 36420

aacccgcaca acggcacgat tctcctcctt cgtccgcgta gctctcggtt tcggcgatgt 60

cggggcgcgg caagggcggc aaggggctgg gcaagggcgg cgccaagcgc caccgcaagg 120

tgctgcgcga caacatccag ggcatcacga agccggcgat ccgtaggctg gccaggaggg 180

gcggcgtcaa gcgcatttct gggctcatct actaagagac ccgcggagtg ctcaagatct 240

tcctcgagaa cgtcatccgc gacgccgtca cctacaccga gcacgcccgc cgcaagaccg 300

tcaccgccat ggatgtcgta tacgcgctca agcgccaggg ccgcacgctc tacggcttcg 360

gcggctaggc cgnctgccct tctgatgctc tgatgtgacg gccgtggtcg gttgaatgtc 420

tagttggccg gtctactgta 440

<210> 36421
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D5

<400> 36421

cggacgcgtg ggattattat ttattgtttt ttaatttatt ttttttattt agataactgg 60

gaacttaatg attaatatta ttatttttt tttatgctct gtacaattct gatagtgata 120

aggacaaaaa gtgatgagat cttggttggc acaatgaaca ttggttctcg ggaagagaga 180

gagagagaga gatagacaga gagaaa 206

<210> 36422
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B7

<400> 36422

accacgcgtt cgaacacgaa cttattgggt tttactggac gattggtctt gcagggaagg 60

gcgcaatgct aatggctgtg atacgagacc aaccttcaac agtgccgagt cagtcaatgc 120

atctgctgaa aaacatggat tggatactga cgtacagaaa cagtatacac ctgttatgaa 180

acctaaagcc tactctcaca acttcaagtg taaaggcccc atgtacgcgg tatatgcatg 240

agctcaagga cactaccagc atgtgaccct gacaccggaa tgaagc 286

<210> 36423
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A3

<400> 36423

accacgcgtg cgcgaaggcc gcggcccact cgccagcttt gaggcccgca tgcaggggat 60

caccagcgaa atctggaacg cgcaccaact gttcgtcgtt gtgttcgaca ccgacaggct 120

caagggctcc acgctcgtaa ccaatggcgt gataacgggc gggtctgacg agtgggcgat 180

ctacggcggt accggggtgt ttgccatggc gaggggcgtc atacggagaa ggtatctcgt 240

cgacagggcc cgtgggaaca ctgatgagct caacatggat gtcttctgtc ggccgtttgg 300

ctcacagtca cagctgcaag ataagatgca agtgcaaggg catgggcagg gctctagcgt 360

caccaagatt ggactatggt gtggaccggg agggtcggca caggacatca cggcagagcg 420

gtcaccgtag catgttcac 439

<210> 36424
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A4

<400> 36424

aggacgcgtg ggcaacgggg agatgcatct tcaaacaatg gttgggctgt acaaacatga 60

ttcatctcgg tcagctcgac gcccagggcc tgatattggc actcctgctc aattcattca 120

ccaaactgtt ggcatatcat tgaatttgct tataaacgtg gggaaacata acttgcctgg 180

gaagtggtgg ctgtcagcct gcgatcgtga actgtaactt atcgaaaatg caacggagtt 240

tgggactcta ct 252

<210> 36425
<211> 254

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A6

<400> 36425

cgcagcatca ggccagtgtg ctgcccttat tccgtgatct gccgagagtt gctcctgcta 60

tcgcgttatg tgtgtctgtt ctgaagtatt gcgcggttta caacacctga tgttgtaaga 120

gttgctaatt accctgcatt gctaccggct tattgagaat aattattgct tgttacgttg 180

ttgcttcaaa actgcgatcg tgaactgtaa cttatcgaaa atgccgcgca gtttagaaga 240

ttcacgctta cgta 254

<210> 36426
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A7

<400> 36426

gctcattttg ttagccatgt tgctcaacat tgcaacatca gtggtggtgg tcgtggtcgt 60

acttatgacg atgtgcatgg cttggaggat gcatctatga gagtttctga tacagtcttg 120

ggaggtgcct atagtagccg tggtggtcat ggtggtcgac gtgcacgtgg tcatcatcca 180

gccccccttc aacaatgcca tatcgtgcac ctcgcacaat tggagatcgt ggtgctgctg 240

tctagtctgt ggacgacgac actgagggtg atgaattcaa tgaccaagat gctttggggc 300

atgctgaatg gaggaagtta aaatatggac caccagaaaa ccttgataag cttgagataa 360

tgtttgagca tatagctatg aatggatcaa cttcctgcac accaggacaa aatattgata 420

tagaaggacc tgatgttgaa ggagtagaag c 451

<210> 36427
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A8

<400> 36427

atcatcaagc ataccctgga gatcattcat ttgctcaccg atgccaaccc catccaggtc 60

gtcgtcgacg cgatcatcaa cagtggaccc cgtgaggatg ccacccgtat tggttccgct 120

ggtgttgtga ggaggcaggc cgtggatatc tcacccctga ggagggtgaa ccaggccatc 180

tacctgctca ccactggtgc cagggagagt gctttccgga acatcaaaac cattgccgag 240

tgccttgcag atgagctgat caacgctgcc aagggctcat ccaacagtta cgccatcaag 300

aagaaggacg agattgagcg tgttgccaag gccaaccgtt gaactgagct tgtatcctgg 360

tgcactctgc gctggaaact tttatgtcgc tggcagtcgt atcggttctt ggtttaccaa 420

tgtttagagt tttttgagac ctatatg 447

<210> 36428
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A9

<400> 36428

cggacgcgtg gggtgaagag gcttctcctg attctcatga aacgttcaag catgatagtt 60

ccttctgtat ccagatgcat agtgttgagg aaacacagag tttttctgtg tctatggaga 120

caaaggctga tatcaaaagt gattttgttt tctttcagtt tgctgtccat tattccaata 180

tatatcaaac agaaatcact cgggtgatca ctatgaggct gcagactgat gatggtttgt 240

ctgcatatct ggcaagtgtg caggaggatg ttgcggcagt tatcattggt aaaagaactg 300

tattgcgtgc caggactgcc tctgatgcta ttgatatgag gctctcaatt gatgaaagag 360

taaaggacat agctctcaaa tttggtagtc aggctcccaa atcaaagctt taccgcttcc 420

caaaagaact agcatcac 438

<210> 36429
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B1

<400> 36429

agaccgatga ctgtcacact agatgattac atgaatcttg tcacatctaa actgaactga 60

attgatgacg acatggcccg aatggtcgct tctggaatca ttggtaactg gcacaacatt 120

tttgaataag ctgattcaca gaattccatg ctgacactat ttaagtcaag cgtatcggca 180

aacctacagc gcagaatcac accgcgtaga atggaatgac gacgaatagg gactaacgaa 240

tagaattgtc taagcacgta tgcttaaaag gatacaactg aatggatctg agcgcttcaa 300

ttgattgat 309

<210> 36430
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B10

<400> 36430

cgctcctcgc gccgacgtcg cgtctgctcc tgtacaggta aggagaggaa gagggcgaaa 60

tggtgaagcg caacatcgtc atgcccaacg ggcacttcaa gaagcactgg cagaactatg 120

tcaagacatg gctcaaccag cccgcccgca agcagaggcg ccgcatcgct cgtcaaaaga 180

aggctgtgaa gatattcccc cgcccgactg ctggtcctct acgcccgatt gttcaatgcc 240

agactttaaa gtacaacatg aagtcaaggg ctgggagagg ctttaccctt gaggagctga 300

aagctggtgg catgcccaag aagcttgatc caaccattgg tatatctgat gatcaccgtc 360

gtaagaacaa atcccttgag ggactgcatg ccaatgtgca gaggcttaag acatacaatg 420

ccaagctggt tatctttcca aagcgtgcgc gc 452

<210> 36431
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B11

<400> 36431

gcgcggacgc gtgggctcac tcccacttta ctcttatcca ctgcggactg gacgcgtgcg 60

agaggcttga ccgagcagca gcagcagcag cagcgatggc gcctctgaag ctgtacggga 120

tgccgctgtg ccccaacgtg gtgcgcgtgg ccaccgtgct caacgagaag ggcctcgact 180

tcgagatcgt ccccgttgac ctcaccaccg gcgcccacaa gcagtccgac ttgctgaccc 240

tcaacccttt cggacagata cccgctctcg tccacggaga cgaactcctc ttctagtgcc 300

gtgcgatcaa ccggtacatc tccagcaagc acgcgtctga gggcac 346

<210> 36432
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B12

<400> 36432

cagcgggact gtcgttggga tcaagtgcaa tgatggcatt gttctgggtg tcgagaagct 60

ggtaacctcg aagatgatgc tggaggggtc aaatcggagg atccattcag tgcaccggca 120

ttcgggcttg gttgttgctg gtttggcagc agatggcaga caaattgttt caagggccaa 180

atcagaagct gccagttatg aaaaggtcta tggagaaccc attcctgtga aggatttggc 240

agatcgcgta gcaagttatg ttcatctttg cacgctgtac tggcggctta cacctttggg 300

ttgctgcgtt attcttggag gttatgatat ggatggacca cagctttaca tgatagagtc 360

ctcaagagct tcctataaat acttaggtgc tgcatttggg aaaggaat 408

<210> 36433
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B2

<400> 36433

agaccgatga tggtcaccta gagatgcaat catatgtttg ctcataaact caaatcattg 60

gcagacgaca tggactgctt gatcgactgt ggattcattg ttgaggggga caacattgta 120

ggcgatggcg tatgacggaa ttccatgcgg ataccattaa agtcaagacg ttcggcaagc 180

gtacggcgca gaatcgcact gcggacaatg gaatgacgac gaatagggac taacgaatgg 240

aatggtctaa gcacgtgtgc tgaaaaggat actgctggac ggatctgtaa gcatcgattg 300

attgatgata tgcataactt gaaatggatg accaaggcat aggcgaacta agtttgtggc 360

aaagcacatg ctgctgcatg aatctacagt aaccgaagca gacgaatc 408

<210> 36434
<211> 377

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B3

<400> 36434

ctggacgtcc ggcagtttca agtttgaact gcccaccatt tcttgctgtt gaggcctgca 60

gggagcgctt gggtgtccat ccttgtgaca agaggaggag catcacagag taccgtgctc 120

tcttccctgc cattgatttt tcgctgatag agagtgacga agatgttctc tgggtaccag 180

atgtcagaga aacctttgag tcactcgcag aaaggggtat gaagttcatt gactggctat 240

ggacaagaga agagagagag atagccatcg tcacccatag cggtttatta agccatacct 300

tgcgcatgta cagcaaaaag tgccatccaa caagtacaca agaagtgagc aagtactttg 360

caaactgcga gctccgg 377

<210> 36435
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B4

<400> 36435

cggacgcgtg gggcttcgta caagctctct gacgccgtca agaaggcatc ccccaagacc 60

aaggctaagc cggcaaaggc cgtcgctgcc aagaccaccg tccccaagcc ggccaaggcc 120

gtcgtcgtca agtcaaagaa tgcagcggct gccaagccaa agaaggccgc tgctgctggg 180

accaagcgca aagtgcccga gaagaaggtc gtggcgaagc cgaagaagtc ccccgccgtc 240

aaggccaagg ccaagccgaa gaccgtgaag tcccctgcct ccaagaaggc acggaaagcc 300

tccgcatgag atgggttgct ctaggtctaa gctctgattg tggttggtgt cagctaggta 360

ctgtacaaac taagtgtgtg cccaaagtgt ctcatgcagc gtgttatgtg cttagcaagt 420

tctatctatc agagt 435

<210> 36436
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B5

<400> 36436

cccacgcgtc cgattttctt tgaatgcgtt caacgggacc attgctattg cttgcaaggc 60

ctttttcctt gccagtcaat ataattgtga atttgaggct ctgagcatgt gctagaatgg 120

gcatccataa tagtaaatat aagaaacagt ttttagtact aatttattca gtattatcca 180

aagaagaatt tagtggaact gttttgagtg tgttgtatag ttatgctaat tctctcatct 240

atttgcggct cactacaacg atgtttacag tacttcattt ctgaacttgg ttttcaatgg 300

aattgcctag catctgcatt gtaatttttc atgctccggt catctcagat tgtgaatact 360

tatgttttct gtaataatca tgggtcattt tgac 394

<210> 36437
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A2

<400> 36437

aatcctactg tcccgctagg attacgtgct taccctattc caaaacctca cagcggagaa 60

gagcgcaaga tgttcgtgtg tgggcaccac ggacaccacg gccagaaccc gacggcgcac 120

gggggcgtgc accaaaccac cttgaagatc ttctgcaagg ccgacaaggg gtactgcctc 180

acaggacgct actgcaacgt ggtgctggcc cccgccaacc cgcgcgacga gcaccagcac 240

tggtacaagg acatgcgctt cagcacccat gtcaaggacg aggagggcaa ccctgcgttc 300

gacctggtca acaaggccac tgggctcgtc atcaagcact ccctcggtca gtcccacctc 360

gtgaagctgg tgccgttc 378

<210> 36438
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-F12

<400> 36438

cccacgcgtc cggagcattc catcaatttt caatttcgtc ccccaaaaaa agcggacgtt 60

aaattttaat tggggaagct aatacaaata accaatacaa caacaaatac tataatcaac 120

tcatgtgaca tctaaaatac tatcttcttc ccataatttt tttttatcaa actttata 178

<210> 36439
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-F3

<400> 36439

cggacgcgtg gggtaatttc aggccgcttg tcctttcttg cgttttcctt ccttgcctgg 60

tcgttccgaa accccgcacc ttccccattt catttccccc gcagagtagt agtttttac 120

tggaatttgt accggaacca gggcttaatg gatgctgttt gcttgttagt tcagcttcac 180

caatttctca acagtgtgtt tgttcttctc caggacagta gaaaggaaag gagaaaagct 240

tgttgtgtct gtgtgtgagc tgcagacccc gagaggatgg atcagtatga ggtgctggag 300

cagattggga aaggagcatt tggttctgca ctcttggtga ggcacaaggc cgagaagaag 360

aagtatgtgc tcaagaagat a 381

<210> 36440
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-F4

<400> 36440

ggaattccgg gcgaccagcg ttcgccagcg ttcgccagcg ttcgttggtc ctgtgaggac 60

cctccatcat attaagagaa gaccagcagc atctatcatt gtctgctcaa cccgggagtg 120

gcactttagc ttcataccag cacctgtggt agctgctcca gctgcagtct ctgccaaaga 180

ggacttcttt cctgttttgg aagcccccca gaccagcaag cgcaccaagt caaaagcatc 240

tgatatctgt gcccagaccg agaacaactc tgttatagta 280

<210> 36441
<211> 321
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-F5

<400> 36441

gcggggctcg ggtgcnccct tcgctgccct tccccctccg cgtccccggc tccccggtgg 60

ccgccgctcc accgctgccc acggcgcggc ccgcccgggc ctncccgctc cctcctgccg 120

cccgcgcggc gtttcaagcc cctagacatg aagaagggac atagtaggaa ctcaccgaag 180

accttcagct catctggaca ctcgggggtt aaactaaaca acgaaggtct cgtcaacgac 240

aggctcctaa taaattgtgg agaggatcaa gattgtgtgc tcggtggcat agttgccctg 300

ggaaagtttg atgctctcca c 321

<210> 36442
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-F6

<400> 36442

tcgcccacgc gttcgnttng accgtgttat ggagaagaga atcccggagg tcgtcgcgga 60

cgcggtggcc tttcgcgaag agctccgccg ccacttcgag cgcctgccgc tgagctacgc 120

cgtcgatgtg aacgtcgaca aggcggagga cgtgctgctg caccggagga ttctcaacga 180

gtgcgctcac cctgaaaatc gccccatctt ccatgtgggc tttctgaact gcattccgcc 240

ctcggtggat ccacagtata acactcaatt catctctacg agcgaaaaca gtaattgtgg 300

gggttctcag gattccactt tgagaaaatt tgagccatgc gaagggatcg aggacctcag 360

tttaactgga caaaa 375

<210> 36443
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G1

<400> 36443

atctcctcgg ccgacacgtg ctgaggccac tgacgttgca aatgccgttc ttgatggaac 60

tgactgtgtc atgctcagcg gagagagtgc cgctggagcc taccccgagg tggctgtgaa 120

gatcatggct cgtatttgca tcgaggcaga atcttccctg gaccacgagg cagttttcaa 180

ggccatgatc aggtccgcgc ctcttccaat gagccctctg gagtcccttg catcatctgc 240

tgtgaggact ggcaacaagg ccaaggctgc actgattgtc gtcctgactc gcggtggcac 300

cacggccaaa ctggtcgcca agtaccgccc cagggtcccc atcctctccg ttgtcgtacc 360

cgtgctta 368

<210> 36444
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G10

<400> 36444

atcacgagtc tctcagcgag tgctggagag cccactatgt ccgccgccgg cggcgacgtg 60

ccggagactg tggaggtgac gctgcgcgcc gtcggcccgt cccgtccaac caccctccgc 120

ctccctccgc ttctctcggt cgccgagctg cgcggctgca tcgcgcgcga acgccgtcta 180

gcaggcacgg aagaagttcg actccgcttg atcctgcggg ggaagacgct cccgcaccaa 240

gacgacagcc atgtcactct ccgcgatggg gatactctta tagtcgccgt ggcacctaag 300

cctcctgtta atcatcttct tgatgatgac gttgaggacg aagaagagga tgaact 356

<210> 36445
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G11

<400> 36445

acgcgtccgg tttattctga gaacaaccct tatgtgtgtc accctaatcc aatgcaagaa 60

ggacaggagc tcttccgcaa gggcctgtta agtgaacctg ttcttgcttt agaggctgaa 120

gttttgaaga atcctgataa tgcttaaggt tggaggttgt taggcataac acatgcagaa 180

aatgatgatg accaacaggc cattgcatca atgatgcttg cgttggaagc taatccgaca 240

aaccttgaag atcttcttgc tcttggtgtt agtcacacaa atgaattgta gcacggagaa 300

gcattaaggt atctttatag gttgcttcag aatcatccaa aatatg 346

<210> 36446
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-G12

<400> 36446

gcgagcgaga aacgaacttg agcgatagat agaatctcac accgcaaccg agaaacaagc 60

gaactcgaca aaaagattca gggaggctct tgctacatgg ccattgcggc gcggctgctg 120

cgagcaaccg aggtgagata tcgattacta tctgcttccc atggtttcgg ccagcgagct 180

gcatacacag atggtgggat agtcgatgtt ggccaaccaa caccccagtc tcatccagag 240

ttattagctg atggagagat cacaccaggc atcacaaacg aggaatacat ctctagaaga 300

aaaaaacttt tagaggtgct accagagaag agcttggcca ttattgcttc tgctgatcag 360

canatgatga ctgatgtag 379

<210> 36447
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G5

<400> 36447

cgcatggtca gcactgcctt tgcacggatt tggatccgag tctagcggca tggcggatct 60

cgccggcgag cctgtggcga ggaccaacag cgatggcggc ggcggcggca gcaaggactc 120

gggcagcttc gagtgcaaca tctgcctgga cctggcgcag gaccccgtgg tcaccctatg 180

cggccacctc ttctgctggc cctgcctcta cgagtggctc cacgttcacg cgcactctca 240

ggagtgtccc gtctgcaaag ccgtcgtcga ggaggggaaa ctcgtccccc tcta 294

<210> 36448
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G7

<400> 36448

cagcgtcgag agctggccaa gatgaaagac ctaaggggt ctcaaaggtg aagactgcct 60

agaccattgg ctagctcttt tgttgaggac tcgctttctc cacaaagctt ctcgcagctc 120

aggagttgcg gcttcccagg cttccagctc ctaaaatgta cttattcacg taccaaggga 180

tttgatctgc cgtaagtatt atgcgagatt tgttccacca tttacgatca actgtatagt 240

tctaaagatc ccctcaacca acatgctgcg gatttgaagg gcaatcatca ggaacatgtc 300

cgcatgaaac gtatgcaaga gtgagatgcc aaatcagatg atgacgtttc aaaaggtgaa 360

agacattttt gt 372

<210> 36449
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G8

<400> 36449

tctacacata ccggatcata aaatctaccg ttttattgat gatccagagc ttcagctgtc 60

gacaataagt gatggtgatc atcttgcagt ttataagctc ccaaagttgg aaaagagggt 120

gaattacatt cagtttgtgc atcgtcatga agatctggac catggaaaca ataacagctt 180

gacatcttgg aaaccgtacc gtgttcctct tcttgcacaa atttcttgca atgaaattgt 240

cacgggtttt gatatccatg agttggtcca taaaatgctt gtgcccgtgc taaagaattc 300

ggactctctg catttggctg gtcaaagttc tgttttcaca ag 342

<210> 36450
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-H1

<400> 36450

cccacgcgtc cgatgttttc gctcttctta ctggatatca tgatccacct gctggtgttc 60

agattcgtga gggtctgcac tacaatccct acttccctgg tggtgccata gccatgccga 120

agatgcttaa tgatggagct gttgagtatg aagatggtac acctgcaact gaagcccaga 180

tgggtaagga tgtcgtatca ttcctttcgt gggcagctga gcctgagatg gaagagagaa 240

agctgatggg agtgaaatgg atctttctac tatcactagc gcttctccaa gctgcctact 300

accgccgcat gaggtggtca gtcttgaagt cccgaaagct ggtcctggat gtcgtcaact 360

aaggactatc attacccttt tttta 385

<210> 36451
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-H12

<400> 36451

cgaagacgag gaccgcagcc tggacctact ggcccggttc ctgcactccg tatgtaagaa 60

ggcctcacgc cgcgcgcgcc gcgctgccag gtccgtgctg ccgccttccg tccccgccga 120

gctggtgaag ttttcggtca atggcgtgct tgtcctgacg ttcttatgga tcctgaaggg 180

tcttctcgag gtggtctgca catttggaag catggtgttt gcaagcatcc ttcttgttcg 240

tggtatatgg tctggggtga catacatcag agaaaaccgt tacagctata ttcaccggat 300

cgacaacgat gagaaccgat ggagcagagt ccagactggc tgttaatatt ttgctttcct 360

tatctatgaa cagacacac 379

<210> 36452
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-H6

<400> 36452

gggtgaggaa agtcagggac tacttcagct atgtgacgta cgctacactg catgagtgag 60

ctgtgtcggc atgagtagga gacaagtgcc tcgatagtat tttggctaat tgttccagta 120

ctgtattcat gatgtgcaca ctgctctgta ctactggtgt gcatgtgatt gttgtacatt 180

atttgctctt c 191

<210> 36453
<211> 72
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-H9

<400> 36453

aaaaaaaaaa aaaaattaaa ttttaatttt ctaaaaaaaa aaaaaaaann ggggggaatg 60

taaaaaataa aa 72

<210> 36454
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A10

<400> 36454

gcgcccacgc gtccgaagaa taagataaga ccattttaag aggaaacaaa caaaaataag 60

aaatagctaa tgaggtcaaa ggcgtaggtg ctgaatagac attgatgatc ttgcgtgcgt 120

ttagacacaa aggctgatat ctacagtcgt ttgaattgat ttcattttgc ttgagcctca 180

ttttaataca tttgaaatgg cgatgctcta ggatgaactc ta 222

<210> 36455
<211> 372
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-F11

<400> 36455

ggagagagat ctcgatccgc acaccttatg cctctcttcc tctcgcccca aggacaacga 60

aaacatcaaa cgagagaacg aaaggaaaca gagcaagagc atcgctctcg aagcaaaacg 120

cgcaccacgc cgtcgccggc cggccacttc gcacgtacgt aagacgcgca cgcaccggtg 180

catatatggg gctcctgaac cagctgtggg acgacacggt ggccgggccg cgcccggact 240

ccggcctcgg caagctccgc aagtacgcct ccttctcccc ctcgtcgtcg tcntccgcgg 300

cggtggcggc tgcngctgct gctggctccg cgccgcctcc gggcgccgtg acgcggagct 360

tgaccatgct gc 372

<210> 36456
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A11

<400> 36456

cgacccacgc gtgagccaag ccttccgccc acgcgtccgc ccacgcttac gaccatatgg 60

gatggccata tggcctccca gtgagactgc tcaatcgagc gatgcgctca agacattctg 120

agatacatgg gatacctcaa ggctgtctgg cacgtcagca ctctctattg cgcagttaca 180

aagatgcagg ttccaaactc agatggcgct atcacttgcc gaccagctgc aaggctgcta 240

ccaacttaat ggcacgtcag atgccgctaa agtggaatat gctggccaat ggtcgcgtct 300

catctacata gcactagcca gaaagcctta ttgattc 337

<210> 36457
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-047-Q1-K1-A12

<400> 36457

caagaccgcg gagaacttcc gcgcgctgtg cacgggcgag aagggcgtgg gcaagtccgg 60

gaagccgctg cactacaagg gctccacctt ccaccgcgtc atccccgagt tcatgtgcca 120

gggcggcgac ttcacccgcg gcaacggcac cggcggcgag tccatctacg gcgagaagtt 180

ccccgacgag aagttcgtgc gcaagcacac cgcccccggt gtgctctcca tggccaacgc 240

cgggcccaac accaacggct cccagttctt catctgcacc gtcgcgaccc cttggctcga 300

cggcaagcac gtcgtcttcg gccaggtcgt cgagggcatg gacgtcgtca aggccatcga 360

gaaggtgggc acccgcaacg gctccacctn caaggtggtc aaggtcgctg actgcggaca 420

gctctcctag atctctctga tctggtct 448

<210> 36458
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D10

<400> 36458

cacaaacgcc ggcgcaaact ctcgcccttt cccgacagat cttcaattcc ccggtctcgc 60

caccgatcga ccttcacgcc agtctccgtc tcttccgaaa gcgtcgcgcg cggttgtttg 120

agaggagagg aggaagatga gggagtgcat ctccgtccac atcgggcagg ccggcatcca 180

agtcggcaac gcgtgctggg aactttactg cctcgagcac ggcatccagc ctgatggcca 240

agtgcctgga gataagaccg cgggacatca cgatgatgcc ttcagcacct tcttcagcca 300

gactggtgct tggaagcacg tttcccgtgc aatcttcgtt gatctagaac ccactgtgat 360

cgatgaggtg cgcactggca cgtaccggca gcttt 395

<210> 36459
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-D12

<400> 36459

cccacgcgtc cgcccacgcg ttcgcccacg cgtncgccca cgcgtccgaa gggtatcaag 60

tttgcccacg ggaactaggc accttgcccg gcttctaaca attgatgccc cttgcatttt 120

tgtttgactg cctatttttc ctgccccccg tatggttggg gcaatgaggc gtagtggtcg 180

ataataaaac ccagcggaac aaagaaaacg tgtaccagaa actgtttgca aacaccggtg 240

cctttttttg tgttgaacca ccattagttg agccgtgaag gaatggtgaa caagctttcc 300

acttgctcat ttccgagcgc ttctctttga ttgtatccat ggtttggact catgactgta 360

cgtcttggca gttggcttgg cacccaggaa tctaatcac 399

<210> 36460
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D2

<400> 36460

aatgtctgct gctggtagga ctgttgagac tgtgctgtac ttggctggtt tgggcaatgt 60

caaaacaaag gtgtgattct tgagtcccag ctatcactat cagtcctttt tcaaaattgt 120

gatttccttt ctatttttc ttctgcagat tatcggatca aggaacccac ttaatgtgat 180

taaagctctc ttcatagctt tgaatgctgt atgtgcccat ttcttgctca aaatctgccc 240

aattcaatct cctcatcctt gatatttatt tgtttataga tcatcttctc taatttatca 300

atcattttgc ttccagattg aaactcctaa ggatgtccaa cagaagtttg ggcgtactgt 360

cgtcgagtca tatttattgt gatcatcatg gttgtttgga ggacac 406

<210> 36461
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D3

<400> 36461

cgaggtaggg gaggttcggc tgtgaacaag ttccgcatgt cactgggtct acgcggggcg 60

gccacggtga actgcgcgga caacacgggc gccaagaacc tctacatcat ctccgtcaag 120

ggcatcaagg gccgcctcaa ccgcctaccg tccgcctgtg tcggcgacat ggtcatggcc 180

accgtaaaga agggaaagcc cgacctcagg aagaaagtga tgcccgccgt catcgtccgc 240

cagcgcaagc cgtggcgtct caaggacggt gtctacatgt acttcgaaga taatgctgga 300

gtgattgtga atcccaaggg tgagatgaaa ggttctgcaa tcactggacc tatcggcaag 360

gagtgtgctg 370

<210> 36462
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D6

<400> 36462

gttcgacccc accgccgact tccacaccta ctccatcctc tggaacccca agcacgtcat 60

cttcatggtg gacgacatgc ccatcaagga cttccgcaac ctggagagca agggggtggc 120

gttccccaag agccagccga tgcggctcta ctccagcctg tggaacgcgg acgactgggc 180

gacgcatggc gggcgcgtca agacggactg gtcccacgcc ccc 223

<210> 36463
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D8

<400> 36463

agtgatgatg ataattcaac ccagcccgat gaatattcaa aaatcgaaga gaatggcgat 60

gaggaagaac atatcagtgc ttctgaatca atagacacag ataagaatgc agacaaagaa 120

ttgcttgtgg ctgctagacc caaaaccaag gtcaagaaac tttgcaaaag aatacttcgt 180

caggccccat ctcagtcaat gaaattgaaa gatcttaagg tcgccgttga ggaacactca 240

aatgttgtat tt 252

<210> 36464
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-E1

<400> 36464

cccacgcgtc cgcggacgcg ttggcggtgc tcatcctgtg ccacttcaac agcgattgga 60

ggctaagctc gcaggggggag ctctggagtt ggacgctgtt ctttgctggt gtcacggctg 120

ttggatttgg ttcttcctat tatcatctca acccgaatga cgccacccta gtttgggaca 180

gactgccaat gacgattgct ttcacttctg tcatggctat attcattatt gaaagggttg 240

atgatagagc aggggcaaaa tcccttgcac cacttgtgat tgcgggtgcc ttgagcatca 300

tgtattggag acactntgat gatcttcgcc cgtacgcagt agttcagttt gttccatgca 360

ttgctttacc tgtgatggct atagtaattt caccgatgta tacaca 406

<210> 36465
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-E10

<400> 36465

cggacgcgtg ggcgccgccg tcaccgtcgt cgctcgcgct ctccgcccgg aggggagcga 60

gagtaggggc gtgtcggcgg tgaaagcgac tgcgtcagcc atggcggacg aggagcattc 120

ggagaggaga gaggaggcct ccgagcttgc ccccttcgac ccgaccaaga agaagaaaaa 180

gaagaaggtt gtcatccaag aaccttctga tgaagtggac aagcttgcag agaagacaga 240

aacactggca gtcgcagaac ccgctgaact taacttcact ggaatgaaga agaaaaagaa 300

gaagccggtg gatcttgatt caactcttga tgagcttgga gatggggagg acactcaaga 360

tgatcaagct gtagaggaac aaggggaagg cattgtgctg ggaagtgtcc ctacata 417

<210> 36466
<211> 228
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-E11

<400> 36466

ttttttttt ttttttttn ntnnganttn ttnttttgt ttttgtaaaa ttttaaatgg 60

tttaaagaaa aaaaaatttt aaatttttt ttttttttnn ngaaaaaaaa gnnnaaaaaa 120

aaaaaaaatt tttttaaaaa tttttccctt gtaggaggtt gaaattaaaa aaaaagcatg 180

gtggaaaaaa aaaaaaaaaa attttaaaaa tgacccccctc tttctttt 228

<210> 36467
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-E2

<400> 36467

ctcgaatggt cgaacagtag tttgctcgct attatccatg gcgacttcta cggctgctgc 60

cactgcactg ctccgcccca ggccggcagt tccagccaag aggaggtgcc tccatgcggt 120

tgctgggtgg acgacgatga ggaggagggg agctgcangg gtcgtgcgag ctttcttcaa 180

ccctctcggg gatgagcgca tcctccgaga agccatcaag gagccagtag cattcatggg 240

tggtgtgttt gctggcctct tgaggcttga cctgaatgaa gatcctctca aggaatggat 300

aagtcggaca gtggaggctt ctggaatagc tgaggaaaac agctctgaag aatcaagtga 360

ggcagatcaa aatgatgcac c 381

<210> 36468
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-E3

<400> 36468

ctcaaatntt caaactctag ttttctctta tataacccac gccaacanaa acggggctcg 60

gttaatttac tagtgtgccc cgacaccnac aaaaccaccc aatattaact tccttcattc 120

ttattctatt tttactacca taattactat ttaacctgtt attttcttcc taactttctt 180

taacactttt attgattatc tctttctctt ataaaccaat ctattttcca ttttcaatca 240

ttaatattta ttttttttta tttattaaat ttttatattt ttttttatta attttatttt 300

atttaatatt ttttttttcc ctttttttatt tattttattt aatttaaatt tttttttatt 360

ttattttatt ctttttttta ttataatatt ttaattttat tcttttatta tatttttttt 420

ctatttatat aatttttttt cttttttt 447

<210> 36469
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-E4

<400> 36469

gacgaagcga aagacaaagc ttttgagttg gagttgagct ggatctgtga tgaatcggag 60

cgtcagcatc agaagggtcc aaatgaactg ttggagcaag ccaaagctgc tgctcaagca 120

gctcttgagg agatggatgc tgactaagaa acaagacgat ttgcccagac ttggtgtttt 180

tggtgctgtt gaaatctccg atccctttgg ggtgacccac tggacatggc caatttgtca 240

caatttatta ttttgaccca tgtcatgtga aactcctttc gttgaagtct ggtatctaga 300

ttgacttgta tcagagctgt ggtttacgca aactggattc tggagtactg gac 353

<210> 36470
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-E5

<400> 36470

gacagatatt tctaatagcc ttttggttac tacactcctg attcttatca agggtgcacg 60

gctctcaagc tgatctttat catgtgatga tatatatgtt cctgatcctg ctgagactga 120

gaaaatcaac tgtttggggc caaaagaact tcaatatgtg ttacttctgg cttgatcgct 180

gtcaggatgc tcttcccaaa acctttatc tgaaaaactt cataggagag attcaggtca 240

cacttatcgt tctaggacat ctgaaatgga tccagattct gacctgattc gccgagcacg 300

tatgatgatt tcaattcagc gagttttgtg catcaatgat acatccattg agtt 354

<210> 36471
<211> 358
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-E6

<400> 36471

cccacgcgtn cgggccattg ctcttcttga tcccctcacg ctgcgagtgc accacctgga 60

ggagaaaaaa tacagggttt ataatttcaa agcagctctc accagcaagc agctcgtgga 120

gtacattgtg cttgacattg aaacagaatc gcctgaaatt tgcatcgatg ggtctcggta 180

ccagttggct tatgcgcagg ttgcccggat gtcagatttc gggaagaatg acgccatctt 240

tactgtgagg acgcatcttg ggcatctgct gaatcctggc gatcacgccc ttgggtatga 300

tctgtatggt gccaacctga atgatgatga catggacatg gctatgaccc ggtacagc 358

<210> 36472
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-F1

<400> 36472

ggattccggt cctattgtgt tggccttcgg gatcggttcc aacaccagcc gccgtcatgt 60

cnaagcgagg taggggaggt tcggctggga acaagttccg catgtcactg ggtctaccgg 120

tggcggccac ggtgaactgc gcggacaaca cgggcgccaa gaacctctac atcatctccg 180

tcaagggcat caagggccgc ctcaaccgcc tcccgtccgc ctgtgtcggc gacatggtca 240

tggccaccgt aaagaaggga aagcccgacc tcaggaagaa agtgatgccc gccgtcatcg 300

tccgccagcg caagccgtgg cgtcgcaagg acggtgtcta catgtacttc gaagataatg 360

ctggagtgat tgtgaatccc aagggtgaga tg 392

<210> 36473
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-F10

<400> 36473

gccaaattta cagcagagag ctataaaagc tctagctaac cttgcaatag ctgggccgga 60

tacgattgcc aaggagggtg gtgtttttga gttgtctaaa gtgttgttgc aatctgaccc 120

gcctttgccg catgttgtgt gggaatctgc agcatctgta ttgtctagca ttctacagta 180

cagtactgag tttttccttg aggtacctgt tgcagtacta gtgcaattgc tcaggtcagg 240

aactgaaagc actgttgtcg gtgctttgaa tgcccttctt gtattggaga gtgatgactc 300

aacaagtgca gaagcaatgg ctgaaagtgg tgctgtggaa gcattgcttg atctcctgag 360

gagtcatcag tgtgaagaaa ct 382

<210> 36474
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D1

<400> 36474

gctggacgat ctcaaacatc acagctggta acaaggagca gattcaggct gtgatcaatg 60

caaatataat tgcacctctg gtgcaactcc tgcaaactgc tgaatttgac atcaagaaag 120

aagcagcctg ggcaatttca aatgccactt ctggtggcac acatgatcag atcaagtacc 180

ttgttgccca gggttgcatt aagccactct gtgatctgct tgtttgcccg gatcccagaa 240

tcgtaacagt ttgcttggag ggtctcgaga acatcctgaa ggttggcgag gcagagaaaa 300

accttggtgc aagtgatgtc aatgtctatg cacagatgat tgatgatgct gagggcctgg 360

acaagattga gaacctgcag agccatgaca acaccga 397

<210> 36475
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-A6

<400> 36475

cgccacgcgt nccgtccatt attgccgtct ccctttgcg tgagcaaaaa aagaaaacga 60

gaagagcaat ccccatgtct ggcatcatcc acaagatcga ggagaagctc cacatggggg 120

gcgaccacaa gaaggaggat gagcaccaca agaaggccga ggagcaccac aagaaggagg 180

agggggagca ccacaagaag gacggcgggg agcataaaga aagcatcgtg gagaagatca 240

aggacaagat caccggcgag cacggcgaca agtccggcga ccacaaggaa aagaaagaca 300

agaaaaagaa gaaggagaag aagaagcacg gcgagggcca cgaccacgac cacgacggcg 360

gtcacagtag cagcagcagc gacagcgac 389

<210> 36476
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-A7

<400> 36476

tgatgctctt tgtgtggcaa ggaatctgat ccggaacaac tcaatcgtgt acggcggtgg 60

ctcagcagag atatcttgct caattgctgt tgaaactgct gcagatcggc accctggagt 120

tgagcagtac gctatcaggt cattcgctga tgcattagat gctgttccac tagccttggc 180

tgaaaacaag ggtttgtcgc caattgatac c 211

<210> 36477
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-A8

<400> 36477

actagtgcga gattaatatg cttattagga tgagatggat ccatgaagat aagacggaat 60

ctcttgcggt tagcaagatc tattaggata tgatagaatc ttattgaaat aagatggatc 120

tattaatatt agaaagacta ttgtctgata agatgggtct attgaaataa gagagaatct 180

tttaagaata gaaggatcta tatgaaatag atgatctccg ctgtttaggt atcttatgga 240

ctctatctat gattatatgt atatgcacat gtaattatgg acattactcc acaacccatc 300

acactcaatt a 311

<210> 36478
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-B1

<400> 36478

ggcgcgacaa aaagggcgcc gtgccccctc atcgcccccg acgccggcat ctggccctgg 60

ctctccttct cccgatctga tccgaagcgc ggcgtcnacg acgacgacct aagggcacga 120

tgcattcgac caacctgctg ctggaggagc ccatccggat ggcctccatc ctggagccat 180

ccaagaccag tttcttcccg gcgatgacca agatcgtcgg cacgctcggc cccaagtcgc 240

gctccgtcga caccatctcc tcctgcctca aggccggcat gtccgtcgcg cggttcgatt 300

tctcgtgggg agacgccgcc taccaccagg agacgctcga gaacctcaag ctcgccatca 360

agtccaccaa ggagctgtgc gctgttatgc ttgacac 397

<210> 36479
<211> 340
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-B10

<400> 36479

gactgcatta cctgagagca ttatccttta gcaagtgtca gctgctntta aggctttcgt 60

gactggtgac ctgcgacatg aactnattga gcttcttgaa aagattgttc ttcagaattc 120

tgctttcagt ggaaatttca atctgcagaa cctgctcatc ttgactgcta tcaaagcaga 180

tccatccaga gtcatggact atgtcaacag acttgataac ttctatgggc ctgctgttgg 240

acaagttgct gttgaatcac aactgtatta agaggctttt gctatattca agaagttcaa 300

cttaaatgtg catgctgtcg attttctctt ggacaacatc 340

<210> 36480
<211> 321
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-B11

<400> 36480

ccggcccgac gcacgcgtcc gcccacccct tcgaccaaat ctttatatct ttctagctat 60

cagcctttca ngccgccacg gtgcattctg cagctctctc gactncacac tanancgagc 120

gagctgccac agacaaggac acaatgccac ccatacccaa gagaggcgag catctcctgg 180

tcctcctagt tgtcgcatgc gctgccaccg ccgccaccgc cgtcggcacc gtccccttct 240

acccgtccgc ggagtcctct cccgccgctc actgctacgg cactctttac ccggagctct 300

tcctgtccac actcgcatac a 321

<210> 36481
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-B12

<400> 36481

actagttcta gacgcagaaa aaatgattga ggagcttaaa tcanagatag ctaatgcgca 60

aaaggtcgag gaagacatcc gtcagcagtt agaagaatgg aagcagaagt cagtatcact 120

tgagatgaaa ttggaggaag ttactctatc tgagaagttc aaaagtgact cacttgtttc 180

cacgactgaa gagctgtaca agatccagtc gatattgcaa gatcgagaat cggaaattga 240

agttcttaaa ggaaagacaa ctgccttgga aatcgaggtg acaaggcttt tagcagatgt 300

gactgattca aatgagcatc ttgatgcatc acagcaagag gtgtttgggc tgcagacaac 360

aatagatgtt ctg 373

<210> 36482
<211> 317
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-B4

<400> 36482

cgttcgccac gcggttcgcc acgcgttcga cacttatagc aatggctggc tacctcaaca 60

aaatcgggct ggtctcttgg ttcaatggga ctggtgtgaa atttggtgga aggcttggca 120

tgtcatggca actctcattc ngggggctgg tgctgctgta cttctactcg cactatttct 180

ttggcagtgg ggccgcacac atcggagcaa tgttcaccgc gttcctgtcg ggggcgagtg 240

ccctgggcac cccgtcgctt ttcgctgcca tggttctttc attcctctcg aacctcatgg 300

gcgggaccac ccactac 317

<210> 36483
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-B5

<400> 36483

cggacgcgtg ggggctcatg ctcaggttat tcaatcactc tgcctggagg aaaataatgg 60

gcaaggggg tatccatatg gtccaaggtt caactccctg acttattttt tcactaagac 120

tcaaggattc gaaattgaaa ccatgctttc tcccttgacg atgaaacttc caggggttcg 180

gtgggaaatg caagtacctg gaagagagca agtgccttgg catttgcatc aacacatgca 240

aactgcccac tcagactttc ttcaaagatc acatgggtgt tgatttgtac atggagccaa 300

attttgaaga ctatagctgc cagttcaact tc 332

<210> 36484
<211> 151
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-B6

<400> 36484

tagttagcta ctacttcaat gtcttcatgt tgaggaagag ggctgagcag aacaggttcg 60

acccagcgaa cattgacagt gactactatt agtggcaggc aggtggtgat tttgagtttc 120

caataaacac gaataactga tgaatacaat c 151

<210> 36485
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-B8

<400> 36485

gaaaggctga caacaacata tgacgacaca gattccatgc aagggacatt taacactaat 60

gcacagatgc acgtaggaag aaataatcag caccttataa acggatgcaa cgggaaccca 120

gcaacgttac ctccgactga actatcagta ctggaagact ccacgtttaa ggtcgttcgc 180

ttgtcgcctg aagagagaaa ggaaaagatc cataggttca taaagaaact gaacgagaga 240

aatttcctcc aaaa 254

<210> 36486
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-B9

<400> 36486

gggcttgggg aggctcgtga caagtgttct taagaaaaat ctaaccaatt tcagctgaat 60

aaactaagtg atgagatttc aatgctggag aaaacgctct cggggctcca acagtcagta 120

ggattctgcc ataacgatct gcagtatgga aatattatga tatatgaaga gaccagacaa 180

gtcaccttga tagactatga atatgcgagt tttaacccag tcgcattcga cattgctaat 240

cacttctgtg agatggctgc tgattaccat acatcaacac cacatgtgtt ggattttacg 300

aaatatcctg acactgggga gc 322

<210> 36487
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-C1

<400> 36487

gtgatgggaa cgtttggcta cgtggcgcca gagtacgcta gcaccggcat gctgaacgag 60

aggagcgacg tgtacagctt cgggatcctg atcatggaga tcatctccgg ccgaagcccc 120

gtcgactacg ccaggcctgc cggagaggta aaccttgtag agtggctcaa gaacaaggtg 180

accaacaggg actacgaggc catcgtggac ccgaagctgc cggagaagcc gtcctccaag 240

gctctcaaga aggcgctcct ggtcgcgctg aggtgcgtgg atcccgactc gcagaaacgg 300

cccaagatgg ggcacgtaat ccacatgctc gaagtcgacg acttcccgta tcgagaggac 360

cgtcgaactc ttcggccggg caacggcagc cccctggag 399

<210> 36488
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-C10

<400> 36488

cagcaaataa ggagtctagg aaacccgatg acggccactg gactcctctc acggactaca 60

gcaagtcacg gtcgaacacc tcancgaaga cagcgaccac agggagccgt acatcaacgt 120

tgccatccaa tctgtgccgc catttctcgt ttggcgagat ccaggcggcc accaagaact 180

tcgaccaagc ctctctcctc ggtaaaggcg gctttggaaa cgtgtacctt ggagagatag 240

acagtggcac gatggtggcg atcaagcgcg ggaacccgac gtctgagcag ggcgtccacg 300

agttccagac ggagatcgag atgctgtcga agctccggca ccggcacctc gtgtcgctta 360

tcgggtactg cgacgacatg aatgagctga ttctagtg 398

<210> 36489
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-C11

<400> 36489

gattcacaag aagtaaacag cttagcatgg tgagggatga catccaatgg aaacgtaaaa 60

tgtacacgaa agctctaata gaaaagataa gcaacttgta ccagatacgc acaacaacca 120

atatgtagat gtacaacgtg aaaattctta tgtcagaaca atcagaagta caaatatcaa 180

ggccttctga ttctggccgt tctagtttca ttacaagaga agtgttcaca taatgtgatt 240

catagacagc ttctgcaatt tctttaatcc tggcaagttt tcagttagca acagtaagtc 300

catatttggt tatttttatt tttatgttat tttatttaat tatttttatt ttttttttt 360

atttacttta tgtttatttt ttttttattt ttttttttt ttt 403

<210> 36490
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-C12

<400> 36490

atgaatttta gtgagaatag agacaagtgg tgttgtgtaa tggcacttgt aaagagagac 60

agtacaccta gggttggtcc attgatgatg aacctctgtg caaactttgt caaggacttt 120

gcaatggaag gcttgcagag tcaacataat attttgaaga tctattatgt ggtctagctt 180

gtttctagga atacagatta agaaccagtg gtagagccct acggcagttg agtcttcttt 240

ttgttactca cataagtcaa catttttgt tgtttccatt gaatagttag gactattttc 300

agttattcaa aatcaaagaa agttgcaagt taattcatat atatgtaata aaagttcttg 360

gtaattatct ataagcac 378

<210> 36491
<211> 186
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-C6

<400> 36491

actcggcatc ccctccttcg tcgggccagc cattgttcca agccacatga tcacattctg 60

gctctggatt atactccgtc agggggaggc tatcgagaca catancggct ttgattttcc 120

attcaccccg acaaaatata ttccattcta tggaggagca gaataccatg actatcatca 180

ttatgt 186

<210> 36492
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-A5

<400> 36492

tcggccacgc gttcgcaaaa gggacgacca ccaacggcgg gcggggagga aggttaaacc 60

ctaattggcg ttcggcgggg acgccaagac gatgggccgc ttccaacggg ccattaacgg 120

tttcttcccc gaccggcacc tttttcaagt ggagtacgct cttcaggccg tccccaaggg 180

caacgccgcc gtgggcgttc gcggcacgga caccgtcgtt ctcggcgtcg agaagaaatc 240

cacacccaag cttcaagact tcaagtccgt gcgcaagatc gcgtgcctag acactcacat 300

aactctggcg tgcgcggggc ttaaggcgga cgcgcgcgtg ctcattaacc gcgcgcgggt 360

cgagt 365

<210> 36493
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-C8

<400> 36493

ttaaccaatt tcaacttaat aaactatctc attaaaatac acagcttaat aaaactctct 60

agtatctcca acatacatta ttattctgcc ataacaatca tcactcttta aatattatca 120

tatattaata gaccatacaa tttaccttaa tatactataa atatcctaat tttaacccaa 180

tcttattcca catttcaaat cacttatgtg aaatatcttt ttattaccat acatcaacac 240

cacatttttt tatattttac taaaatatt 269

<210> 36494
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-C9

<400> 36494

ctacgcctac aacatgcgca acacgatcaa agacgagaag atcgcgtcca agctggctgc 60

cgacgacaag aagaagatcg aggacgccat cgacgcggcc atcagctggc tggacgccaa 120

ccagctcgcc gaggcggacg agttcgatga caagatgaag gagctggaga gcctttgcaa 180

ccccatcatc gccaagatgt accagggcgc gggtgccgac atgggtggcg ccggcggcat 240

ggacgaggac gctccggctg gaagcggtgg ccctggcccc aagatcgagg aggtggacta 300

agcgga 306

<210> 36495
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H1

<400> 36495

agcaagtaat atggcttggt cttgtgctcg ttcgatgagc atcgccctcg ctgccgtcct 60

cctgctgtgc ggcggcgcgt ggctgcagca ggcggcggag gcgcgccccc accacatgga 120

caccgacagc agcatcgaca tggaccgcgg cagcgacgac ttcttctcca tcgtggggta 180

ctcgccggag gacctgacgc agcacgaccg gctcgtcagg ctgttcgagg agtgggtggc 240

caagtaccgc aaggcgtacg gcagcttcga ggagaagctg cgccggttcg aggtgttcaa 300

ggacaacctg caccacatcg acgaggccaa caggaaggag gtcaccagct actggctggg 360

cctcaacgcc ttcgccgacc tcacgcacga cgagttcaag gccacatacc t 411

<210> 36496
<211> 430
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H10

<400> 36496

gcgcaggccg tcatgaagcc cattctcgtt ttcctggcgc agaccgggtc gtacctcatg 60

gtgaacgcgt acccgttctt cgcttactcc ggcaatgcgg gagacatctc cctcgactac 120

gccctgttcc gccccaacgc cggcgtgctc gacgccggga acggcctcaa gtactacagc 180

ctcctcgacg cgcagctgga cgccgagttc gccgcggtca gcaggctcgg ggagggctac 240

aacgccgtgc gcgtcgtggt cttcgagacg gtgtggccgt ccaagggcga cgccaacgag 300

gcgggcgctt cagcggccaa cgcctcggcg tacaacggca acctggcccg ccgcgtgctc 360

tacggcaacg cctgcaccac gcgccgcccc gacgccgaca tcgacgtgta cctcttcgcg 420

ctcttcaacg 430

<210> 36497
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H11

<400> 36497

gcctgctgct cgcctctcga ttttcccttt cggacatgtg ctttgtgcga gttggttgat 60

ggttaatggt taatggctag gaactggtgc ttaatcctga aacccgtact gctgtttttc 120

ttgccaactg tggcatcgtc gtcttgtggc tgcgaagctg cagccacctc gttcgtgtat 180

ggcggcagat gagacaattc ataatctaag tatatagata taaatagtag tattaccggt 240

ttgtttgcat ttacgattta tcgtgaactg atggaacata atgtgtatac agcgaacatt 300

tatctgattc catacatttg ttgtttaac 329

<210> 36498
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H12

<400> 36498

cccacgcgtc cgcccacgcg tctttccatt cgtccgccca cgcgtccggc acctcctagg 60

gacacactga gaaaacctgg agtgctgcaa tgtagtgcca aagagaaggt ccttgatcct 120

aagaaggcac agaacattgc catcctgctg cgcgcgctga atgtcactcc ggaagaggtc 180

tccgatgcac tgctagatgg caatactgaa tgtctggggg cggatttgtt ggaaaccttg 240

gtaaagatgg ctcctacgaa agaggaagaa ctgaagcttc gaaactttac cggggactca 300

tcgaagcttg gttccgcaga gcggtttctc aaggcagtgc ttgacatacc tttttctttc 360

aaaagagttg atgctatgct ctatcgagca aattttgaga gcgaaatcaa ttacctcagg 420

aaatctttcg aaa 433

<210> 36499
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-H2

<400> 36499

tttcatatgg tgggtgctaa tctaatattt tactctcgcc gttctgacta tgtattttcc 60

aggtatcgaa cacccaaaga tggcaatggc aaccttcaca tcatccccag ttctctgcag 120

cttcaggacc atcgaacaga agaaggcccc tctgctgaac aacagcacaa aacggccgct 180

tcacttgggc ttcccaagga gcgtgccgac gtcgccgagc ttcagagcga ggctagacct 240

gcgcgtcgcc gctgtctaca aggtgaagct catcggcccc gaagggcagg agagcgtgct 300

cgacgtgcca gaggacagct acatcctgga cgcggccgan gaagccggtc tcgacctgcc 360

ctactcctgc cgcgccggcg cgtgctccac gtgcgccggc aagctcctgg agggctccgt 420

cg 422

<210> 36500
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H3

<400> 36500

cctgcccaag aagaccgttg agaaggcggc tgccatggag gccaagtcgc ccaagaaggc 60

cgctaagtcc cccaagaagg catagagggg cgcctttacc gctgtgatgt tgaatgctcg 120

tgttcagtag atctttactt ctgtagtgtc gtcggtgtta ttggaactgg ttagtagatc 180

tgagcattgt ggttgaaacg tgattccctg atttcagaaa tctaatttgc aaataaaaat 240

gaacatcaac aatgaataca aggagaaact aatcggtaca tgaaaggaat gatagagtgc 300

tctacgtgcc aaaagaacat atacatactg gacgcatgcg aaagaagaaa gggtcgtcct 360

ttttaaat 368

<210> 36501
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H5

<400> 36501

cccacgcgtc cgggtgcagc taagggctta tagtaccttc acgacaaggc gagtcctcct 60

gttatttacc gggattttaa gtcgtcaaac attcttcttg gagaaggatt tcatccgaag 120

ctatcagact ttggccttgc aaaacttggc ccggttggtg acaagaccca tgtttcaaca 180

cgtgtgatgg gtacatatgg ctactgtgcc ccagaatatg caatgactgg gcagctcaca 240

gttaaatccg atgtgtatag ctttggagtc gtgttccttg aacttatcac agggcgcaaa 300

gcaattgaca acaccaagac ccaaggggag caaaacctag tggcatgggc tcgtccactg 360

ttcaaggacc gcaggaaatt ccctaaaatg gctgatccaa tgcttcaggg ccgcttccct 420

atgaggggtc tatatca 437

<210> 36502
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H7

<400> 36502

cccacgcgtc cgcccacgcg tccggtcttt ttcaagacta atgctgatgg gaacacaaca 60

tgtgccaagg aaatgacaaa gctctctggc atctctgaaa tcatccccga gatggagatc 120

tgcgattttg actttgaacc ctgtggctac tccatgaatg cgatccatgg ctctgcattc 180

tccacaatcc atgtgacgcc cgaggacggt ttcagctatg ccagttatga ggttatgggc 240

ttggatgcca ctgctctgtc ttatggtgac cttgtcaaga gggtccttcg gtgctttggc 300

ccctcggagt tttccgttgc cgtgaccatc ttcggcgggc gtggccatgc cgggacatgg 360

ggaaaggcac ttggtgcaga ggtctatgac tgcaacaaca tggtggagca ggagct 416

<210> 36503
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-A1

<400> 36503

tcgggaaggg gcacggtgga aagttgaaaa cttgaaactc agcggagccc ctcggctttt 60

catcttctcc tgctcctgct gcccggtagc cccccgaggg agacgctgct gacctgacga 120

actgagccca cggacgagaa ggaggggcac accacgcagg agacctggag agagcgcgcg 180

cgcggatcca cctcgtatac actctcctct tcttctccgt gtccttggct cagatttagt 240

tgctgcgccg cttcttagga ttgattgctg cttcacccag tgatcgcgtc gtcatcttcg 300

cgtttgctta atcgcctggt tgctgcatcc gttttttttt tggtgttgtg tggttggggg 360

tgccggc 367

<210> 36504
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-A10

<400> 36504

gccacctcgc cacgcgtttc cattctcgca taaatggcct atatgctagc gctatttgca 60

ccttgcagta agtcatggtt tcaagacctg catatttgcg agatggacct tgctttgctt 120

gcttagagat ggtgcaagat ttcctatcaa gtgagctggg cagcgagcat tatcaactga 180

caaaggtttc ggatcccttt tgtaataaag aaactgatga tccgcatact gagcgcggat 240

taatgtcctt tgatgttata tatgacagaa tatagaaata gcagatgtta gc 292

<210> 36505
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-A11

<400> 36505

cggacgcgtg ggctgcgtgc atggcgctag cgcggagggc acgcccaaga ggctgaccta 60

cgactagatc cagagcaaaa cgtacatgga ggtgaagggc acgggcacgg cgaaccagtg 120

cccgaccatc gacggcggcg tggagtcgtt cccgttcaag gccggcaagt accagatgaa 180

gaagctgtgc ctggagccga cgtccttcac cgtcaaggcg gagggcatcg ccaagaacgc 240

cccgcccgag ttccagaaga ccaagctcat gacccgcctc acgtacacgc ttgacgagat 300

cgagggcccg ctcgaggtcg gcttcgactg cacgctcaag ttcgaggaga aggacggctt 360

tgacta 366

<210> 36506
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-A12

<400> 36506

cccacgcgtc cgatgagcag acttgttgtt atattcttca atggagttat gggtgctatt 60

gtangaaaca cagctggtcc aggtnattct tttcccagtc aaccaccgct atggcctagg 120

ggcttcattc agcagcatcc tttggattgc aacatgatga gacacattaa tttttctaat 180

gcatcctatg gtccaacaac aatgtgggct cccattcaga caggaaatat aagttccgaa 240

tcaaccatgc taccagccac acaatctgca gtatattgga atcattatat gaactttgtc 300

aggaatcctc ttggttcagt tcgaggaaat ccttttccag attcgttttc aggtacaaat 360

actagtacac ctttgcaggg ttcg 384

<210> 36507
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-A2

<400> 36507

ctgacaagca cactgacttg gctgaaaaat atggtgtttc tggtttccct acattgaagt 60

tcttccctaa gggaaacaaa gccggtgaag attatgatgg tggccgggac ttggatgact 120

ttgtcaagtt cattaatgag aagtgtggca ccagccggga tccaaagggc cacctgaatc 180

aagaggctgg gcttgtgcca agcttgaatc ctcttgtgaa ggagtttctc aatgctgctg 240

atgacaagcg gaaggaagtc ctctctaaaa tagaagagga tgttgctaag ctcagcggtt 300

ctgcagccaa gcatggaaag atatatgtga cagcttgcaa agagatcata gacaagggct 360

ttgact 366

<210> 36508
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-A3

<400> 36508

cggacgcgtg ggcgccagac ttcgcagttc tcctccacta ccagagcatg cgcgttgccg 60

cgacccgagc cgccgccgcc gctcaccctc cgagcgcctt cctgctcctc ctcgtactcc 120

tctgttgcgc gtccctcgcg atcggaggag cagccatggc cggccacgtc ctcggcggcg 180

tgaaggagaa cccagccgcg gccaacagcg ccgagtccga cgggctcggc cgcttcgccg 240

tcgacgagca caacaggcgc gagaacgcgc tgctggagtt cgtgcgcgtg gtggaggcca 300

aggagcangt ggtggccggc acgatgcacc acctcacgct cgaggccgtc gaggccggga 360

ggaagaagct ctacg 375

<210> 36509
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G9

<400> 36509

gcgtttcctc cctccgcgca tcgtttcctt cctcaccctg tgcctcagat ctcgcccacc 60

tggtagactc gccactccgt ccgcctcctc cccgcctcga tcgccgtcga gctcctctcc 120

cccacgcttg actaacccca cctgcgcttg gattggtggc cagggagagg cgcggaggcg 180

acgcgcccag ctacctaccg gttccatact ctgaagtctg aactggcctc agctgttcca 240

ccacctcgct gttcttggcc cagctgctct gctcttgtcg agggatgatg gtccagtgct 300

cctccaacaa ggctccacac cgacattgag ctac 334

<210> 36510
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-F12

<400> 36510

cccacgcgtc cggagagcca tggtatcctg gccgtcctct tcttggctct caacctcctg 60

ttcttcacgg tggccaacgc ctgcggcagc tgcccgaccc caacgccccc ggtcgagcca 120

ccgccgccgc ctcctgctgc taccccaccc ccttcgtcca gcggcaagtg cccgctgaac 180

gcgctcaagt tcggcgtgtg cgccgatgtg ctcggcctcg tcaaaggcga ggttggcaag 240

gtgcctgccg agccgtgctg taccctcatc aaaggccttg cggacttcga ggccgccgtc 300

tgcctctgca cggccatcaa ggccaacgtg ctcggcgtcg tcatcgatgt ccccatcaag 360

ctcagcgccc tcgtcaacta ctgtggcaag tgcgtgccca agggctactt gtgcgcgtaa 420

gcagctccgc 430

<210> 36511
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-F3

<400> 36511

gttcatagat ttgtccaggc tgactgatgt ctggaccata caatactttt gcattcaggc 60

aaggactcga gaggaagaga ttacgtatgt tatcggtgcc gctagctgtt gtttatgatg 120

atgttttgtt gtgctagttt actgtgatgc tggtggtgcc cccacctaac taacaagaga 180

gctgtcactt gcagactctt gaatttttt tgtcctagcg ccatttcttt agcggtatca 240

agtcaattta tataggctta caaattctgc gccttttgta tggccaaagt gtaatattct 300

tgttcttgta ttatgaacct ccatgctgca gaatgcaaga gcaaatctta ttgtcgatgg 360

tgttctcatt gccagcatgt gtacacagta gcggttcatg ttgttttgag ctgttctgtt 420

ttaataatat ctcaaa 436

<210> 36512
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-F4

<400> 36512

cccacgcgtc cgccttgctg tgccatggct ctgccttgct tcttgggcag ctctgctacc 60

agcgctacta gcatctggaa atgtgggtgc agcagcttcg acactgagag cagagtacat 120

gaatttgaac ttcagcaccg cttcggcgac ccccgacaag tacaagagct tcatcgcttc 180

tgttcgtgct ggcttggtga gcaaagcggg gggcaacagc agcgggatcc ccgtgctggt 240

cgacgaagac gacccgctcg cgctcgagtc gtttctaaac atcactctgg tgaacaaggc 300

agggcgctcc gtaagcttga agatggatgt ctccagagcc tacttcgtgg cttacgtagc 360

anggcagcgc tcgtgccttc tcaagagatc aggccgcacg ttctcgtcgg cgatctgtta 420

cta 423

<210> 36513
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-F5

<400> 36513

tcgcggacgc gtgggcgcct gtgaaagttc ggatccgacg gcccgttcag cttcctctgc 60

ggcgtccgtt ccgaagggca atagttttca agtggcaatg gcggaccatg ctaaccaacc 120

cactgtgctt cataagctca gtggccagct tcacctgcgc tcgatcatct ttgaaagtgt 180

actggcccgt aacatatgcc catctgtctc atcttatgaa acgagatttg ccacaaggaa 240

ctacatgacc catagccttt ggggcccttc aatgtctgtt agcggcggca tcaatgtccc 300

agtgatgcag accccgatct gtgctaatgc tactgctgag aaaggangcc aagaacctca 360

tgattgattt catgaatggc 380

<210> 36514
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-F7

<400> 36514

ctctcctttt gctcggaacg cacacaccgt ccggtccccg ttctccgatc ccctcgtcga 60

tccaaagatg cagatcttcg tcaagaccct cactggaaag actatcaccc tcgaggtgga 120

gtcttctgac accattgaca acgtcaaggc caagatccag gacaaggagg gcatcccccc 180

ggaccagcag cggctcatct ttgctggcaa gcagctcgag gacgggcgca cacttgccga 240

ctacaacatc cagaaggaga gcaccctcca ccttgttctc cgcctcaggg gaggcatgca 300

gatcttcgtc aagaccctca ctggaaagac tatcaccctc gaggtggagt cttctgacac 360

catcgacaac gtcaaggcca agatccagga caaggagggc atccctccag accagcagcg 420

gctcattttt gccggcaagc agctcg 446

<210> 36515
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-F8

<400> 36515

cccacgcgtc cggctcgctc gtcccagctt atcaggtcga gcacctagta gcgacctgct 60

cgatcatcag tgtagagtgt cggtaggtgt ctgtctctct tggtggctgg ttgcaacggt 120

catggcgacg tcgtctcgtc gggtgccctt gctgctgctg tgcctgggcg tgctggtgtc 180

ctgctccttc gcggcgggca gcttggacca ggagctggac atcacgtggg gcgacgggcg 240

gggcaaggtc cttgacaacg ggcggctgct gacgctgtcg ctggaccgca cgtccggctc 300

cgggttccag tcccggcacg agtacctgtt cggcaagatc gacatgcagc tgcggctggt 360

gccgggcaac tccgncggca ccgtcaccgn ctactacctg tcgtcgcagg gcggcgcgca 420

cgacgagatc gacttc 436

<210> 36516
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-F9

<400> 36516

gcagtacagc agcattatca gggttcgtgt cgtgggagtg ggaggttgcc tcaggtgcgg 60

agcagtcgcc ggcggcgacc atcggtgtct gagatgaagg agagaggcgg ctccagggcg 120

gcagtggacg agcgctacgc gcagtggaag tcgctcatcc ccgttctcta cgactggttt 180

gccaaccaca acctcgtttg gccatccctc tcctgccggt gggggccaca gtttgagaaa 240

gctacctaca agaatcgtca acgcctttac ctatctgaac agaccgatgg gagtgtgcct 300

aatactctgg ttatcgcaaa ctgtgaagtt gcgaaaccaa gggttgcagc tgctgaacat 360

atctcgcagt ttaacgagga agcacgatca ccttttgtaa agaagtacat gac 413

<210> 36517
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G1

<400> 36517

gcacaggcag ttcgagagag agagagagag ttagatagat aaagatgtcg tggttcgggc 60

accaccacca caaccagccg gctccccccgg cgtcgggccc caaccaggtg ttcaagatct 120

tctgccgcgc caacgagaac tactgcctgg ccgtccgcga cggcgccgtc gtgctggccc 180

cggtcaaccc caaggacgac caccagcact ggtacaagga catgcgcttc agcacccggg 240

tcaaggacga ggaaggcatg ccggcgttcg cgctcgtcaa caaggccacg gggctcgcca 300

tcaagcactc cctcggccag tcccacccgg tcaagctcgc gcctttcagc ccggaccagg 360

aggacgcgtc ggtgctgtgg acggagagca aggacgtggg caagggcttc cgctgcatcc 420

gcatggtcaa caacac 436

<210> 36518
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G11

<400> 36518

aggaaggtga gttctctgag gcttgtgatt acctggcggc gctcgagaag gactacgagg 60

aggtcggtgc tgagttcgat gagggcgagg atggcgacga gggtgacgag tactagagaa 120

gtttgctgat gacgcagcat caggccagtg tgctgccctt atcccgtgat ctgccgagag 180

ttgctcctgc tatcgtgtta tgtgtgtctg ttctgaagta ttgtgtggtt tacaacacct 240

gatgttgtaa gagttgttaa ttcccctgca ttgctaccgg gttattgaga ataattatgg 300

ctgtttacgt tgttgcttca tctcggagat gctttacatt t 341

<210> 36519
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G2

<400> 36519

gtgaaggata tgaaaccact gaatgatcgt attcttatta aggttgctga agctgaagaa 60

cgaactgctg gtggtttgct attgacgcag gcaactaagg agaaaccttc tgttggatca 120

gtggtagccg ttggcccagg gccgttgggc gaggacggca gcaggaatcc tctgtcgatc 180

actcctggaa gcaacgtgat gtattccaag tatgcgggaa gtgagttcaa gggcgaggac 240

ggtgagtaca tcgtgctcag ggcgtctgac gtgatggctg gtctttcctg atcaccaaac 300

catacagcgc caggtgtgcg ataggaagtt ttgatgttga ggccgagcct tatcttttat 360

ttgctcttgt ttggaattgt tggaggcttt tgaactgtaa tctggtgcga attataagga 420

aaa 423

<210> 36520
<211> 440
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G3

<400> 36520

cccacgcgtc cgagaaaaga aaaaaaaggc ttcgactagc cgacgagagc aacgacgacc 60

atggcgacga tggtcgcttc ttcctgccac gggcaacttc tcctgtttct cctcgtggcc 120

gtcgcgtcgg cctgcctcgg ctccgcggca gcgcatcaag ccggatctgg agagggctac 180

acgatagctg gccgcgtcaa gatcgatggc atgagcgtga agggctttgg tcttgcaaca 240

aagacatcaa acacaaaagt gatacttaat ggcggccaga gggttacatt tgccaggcca 300

gacggctact ttgcattcca caacgtgcca gctggaactc atctgattga ggtctcctca 360

attggttact tcttttcccc agttcgagta gatatcagtg caaggaatcc tggttatatt 420

caagcagcat tgactgaaac 440

<210> 36521
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G4

<400> 36521

cggacgcgtg ggcggactcg tgggcggact tgagttttga cgcgtgggcg gacacgtggg 60

cggcgatcta gtcggctgcg tgcggcgcag cgatagcggg gcaaaaccag ctgctgatcg 120

tcgtgccgac tttgacgatg ctcggcgcaa tgaaggcgcc actagttagc gccacccgct 180

ggcacgcgct gttgaagaag aagtcatact cgctcacggg ccagttgcgg gccttcatca 240

agaagatc 248

<210> 36522
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G5

<400> 36522

cgccacagac aacagcgacc gaggccaccc agagccgaag cagcgcccgg accaaccacc 60

gacgcaacgg acgaaaccgc gaacagcaga aggctacacg acaacccgcc cccgcaagaa 120

cgaacgcatg acccggaacg agcccaggcc cacaacaaag acgaccaaca caaaagagag 180

acctaaaggc cggcaaaagg gtacaagtgc caagccaa 218

<210> 36523
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G6

<400> 36523

ccccagtgtt cctgccaagc cctacaactt taagaaggtt ttgggtggat ttgtaggttg 60

gtcatgtgaa ttgcatcaaa cagggagtca gggacgatat tgaagttgtg gctgtggatg 120

acccttttgt tgatgctaag tacatggccg ttcgcaggat agaggtggtg aggcttctaa 180

gcatactaaa tttctgcatc atgatgaatc atatgtgatt tgtttcgatt caactggata 240

gaagaatcag ttgctgattt gatggagtcg cagcttgctt ggcggacata gggtctgttg 300

catggattat ggtttatgtg ccagcgccca gtggtagaca gtgtgattca atgtgcttgc 360

tgttcatctg tccaaaactg ctaaagtagc ttctgaaaat ggatgacatg ctggacactt 420

gctcactcgg ttc 433

<210> 36524
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-G8

<400> 36524

cccacgcgtc cgcccacgcg tccgtccact cgtccgccca cgcgtccgcc cacgcgtccg 60

attcctatgt caccttgagg aaaacatacc aaagtagcct tggtaacaac aataagaggg 120

ttgagctctt tgatatgggt gctggaagta gtgagcctgc tgctgaggac aatattcaaa 180

tggcatcagc catgacaaat caacaactca ttgatacggg aaggaaccaa atggaccaaa 240

cagatcaagc tattgaacgt tcaaaaatgg tcgtagcaca aactgttgag actggagctc 300

aaactgctgc gacattaaca cagcaaacag agcaaatgaa gagaattggt aatgagctag 360

atactgtcca cttctcactg aagaaagcta gccaactagt gaaggagatt ggtcgccagg 420

ttgcgactga canatgta 438

<210> 36525
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-F11

<400> 36525

gagctcctgc agccatggcg gtttctctgc ttctcctcct cctgctgtcc gtgtgcacag 60

cctcagatgc ggcgttctgc gtgtgcaagc cgggcatgtc cgacccgatg atgcagtcgg 120

ccatcgacta cgcctgcagc aaggggggccg actgcgcctc caccaccaag ggcgcgccgt 180

gctacggcaa cggcaacaag gtggccgtct gctcctacat ctgcaacagc tactaccaga 240

gccgcagcgg catgggcgcc acctgcgact tcaacggcgt cgacaccctc accggcaccg 300

accccagctc cgggacctgc aagttcgcct ccggccccag cagcgtacgc accggcggcg 360

gcgctggtat gggcacccgc ggagcatgcg ctggcgtcgg cggt 404

<210> 36526
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D7

<400> 36526

cccacgcgtc cgcccacgcg tccgtccact tgtccgccca cgcgtccgcg gacgcgtggg 60

gttgatcttg cacatggtaa tggacaacca agagcaaata ctgtcacagc ccacaggggc 120

tctttcataa ctgagcatat tctgcatcat ggagtttctt cggatgctat aggaaattct 180

tccaggaatg cagagtgttt tgttggtgca gcaggccaag acagtcatca tgcagccttt 240

aagagaaagt atcttgatgg atgtcatgca gagtcttctg ctaacggaag ctcacgcaat 300

cgtcaccaga ataatagtac tctgctacct cctccgacca cctgtgaaag ttttactata 360

cccaccgcaa caaattttag tgttccgtac catcctgtgg agcagctaaa ccagagtact 420

aatattgctg caagctct 438

<210> 36527
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D8

<400> 36527

agcacctgca agcgcaagaa gaccttgccg tgctactcgg ggcctcgtcc aaaggcggtg 60

cacttcgagg agtgccggga ggtgagcgtg cagggcgtga cgctgcagaa cgcgcagcag 120

ttccagctga cgttcacgcg ctgctcctgc gtgaaggcca gcttcctccg ggtggtggcg 180

ccggcggaca gccccaacac cgacggcatc cacctcaacg acacctccca cgtccgcatc 240

acggacaacc tcatctccac aggggacgac tgcgtctcca tggtcggcaa ttgctctgac 300

gtccgtgtga aagacatctc atgtgggcct ggccatggca tcagcatcgg aagccttgga 360

aagaaccgga ccaccgacat ggtggaagac gtgaaggtcg acacctgctt gctcaccaac 420

acgaccaacg gcg 433

<210> 36528
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-D9

<400> 36528

ctttctgcgt ccgtgaagtc caatgtgcct tccggccgcc gggtgaagac gaagaggaga 60

gtgccctccg cgctggctga gaagaagcgt accagtcggg cgctgcggcg ccgtccatgg 120

cgagagagag cgtctgcagg ccagccgaga gcccgagacc agtctgctcg tgccggtgtg 180

ggtgacgggc gttgcgtcgt gtccaagagc aaggtacgcc gtacgctgaa gctgctatgc 240

cttttggccc tgcgtcgtgt ctttcgacgt tggctggtgg ccctggcacc acgccgtgga 300

gcggtggagc cgccggtggg ccgggacggg aggcaggccg ccgccgggtg ctcagctcag 360

ctctgtccta gcgcgcgcca tccatcgatc tncgncaccg gccacaccac caactgcaag 420

ctggctgttg a 431

<210> 36529
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E1

<400> 36529

atgatccatt cctgggaaag cgcattgaat atggttattt tgtcagtgtt cctttgagag 60

atgagttcct tgaaaatgct aggcttttta ttttcgagac atactgccgt atccatcggt 120

gcatcgatat cagcatgctt gctcagaagt tgaacatgag ctacgatgag gccgagttgt 180

ggatcatgaa tttggttaga agctcaaaac tggatgccag gatcgattca gtatcaggaa 240

ctctcatcat gacaaccaat cacgtcaatg tccatgagca gattgttgag agcttgaagg 300

gccttaatat gaggacctac atgctcgcaa agaacatcgt tgagccagct cagcaggcaa 360

ctcggtgagg atagcagact tcacagtttt gagacgccaa ggactagttt agagacaact 420

tgtaactttt cgagctcta 439

<210> 36530
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E10

<400> 36530

caattttgca atatgcacgg cattttattt tgctatatct attataggct acctcatgtt 60

tggagacaag atgctctcat aaataacttt caatcttctg aaagattcat ttgcagcaaa 120

agttgcacga tggaccacga taactattat tgtcggtttc tctgattcaa ttaagtggga 180

acccttggta gtgattcaat taagtgagaa gtgagaaccc tcattgtgct attttttttgt 240

ttcaggtgat cattcctttc acaaaatatt ctttagtgat aaaaccatta gcttagagta 300

tggaagggtt gtgtccagca aggtttatga cggatagtct tcgctgttat gctgcgtact 360

cgatgtgttg cctttctcct accattcttt gggttggtat ctatctttgt agccgaagaa 420

acaatcctga 430

<210> 36531

<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-E11

<400> 36531

gtcacaagca accaccttgc atatttcttt gcctcatgga attctgcccc taccctgcat 60

tgtctgccct gtgaagagag agaccagaga gagagagaga gggcttcgat gctcttctca 120

ggctgcaggt caaggagtga gaacaagaaa gccttctttg aagttgggtt gttgaggtgc 180

tctgaagaag tattagcgtg tcttccatca gtcagttctc tcataatttc atcttccttt 240

ccttgtgttg tccttggcct ctctttctgt gtccctgcac tctcttgtta tggactcctc 300

tcagcttact ggggacaata ctgaagagtg caacagtaat gaatctgggt ggacgatgta 360

cctgngctcc ccagtgaaca gtgatgatct caaagccaat ggcagcanat ggagtaataa 420

tgttggcagt ggct 434

<210> 36532
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E12

<400> 36532

gttctagatc gcgagggccg ccttttttttt ttttttttttt ttgacacgca tttagcttgg 60

cactatatgt tgcatacaat ccatttacat tagctgaaac gctatacatc actctgaaat 120

ccagttaacc atacacatac acttgcgata gtgtggcaca gcatgtgcaa ctgtggatat 180

actcatcttg cacgcagcca tcgtcgccgc tgccatcgtg catcacctga gcatgtctcc 240

aaagtccacg aatgggccgc cgccgctcag aatcgatgag gcgctgaaat tggtttcgcc 300

ttcgtcgaac gcgatcctct ggccgaacgg ctgcggcctg tccggcaggt cgggcacgtc 360

catatccccc tccagcatcc tcagtgcctc cggcatggtc gggcggaacg ccaccgtgac 420

gtgggcacac a 431

<210> 36533
<211> 225

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E2

<400> 36533

cagaattggg atttgctgag gcgtaacgat tcagttgagt gtggtggctg tcgccggccg 60

gccttgtgtt tttgttgtct gcttttctct tgaacgaaga tgtgatgaac tcagctgaag 120

atgtagtgtg tatgttgtca tggtttattt ttctatttta tttatctatc tataatatct 180

atcggagaag gtttgatatg aagcggaaca ctgattaacg atgcc 225

<210> 36534
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E3

<400> 36534

ggtctactga agtcaggcgg acattcttct atggtgatgc tggatcattt ctgtgatgat 60

taagtctttg tcacttcaat aagcgtcctg tatggtgttg cctgtagccc tgtatggccg 120

aagctactaa aggtaattag ggtttgataa agttaaagca accgagtccc aaacttttga 180

tcttgattcg tgcaaacggg gacgatgcaa cacattttca aggtattctg gacctttatg 240

aagcatgctc tgggcaggtc atcaacaaag acaagtcttc tgttcactaa aaatacgaga 300

agtgagacga agatggcggt catgcaagct ctaaatttaa cacaagggac tttcaacgac 360

agatatctgg gcttaccagt tcgctttggg cagtccagga caaaaacttc ttagtactta 420

aatgataatg tgac 434

<210> 36535
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E4

<400> 36535

cggacgcgtg ggcggactcg tgggcggact cgtggtcgga cgcgtgggcg acccacacgg 60

gccagattta tttgttgcag gatagcacgt ataacgctga acaattcact ttacctgctc 120

caataaactg aacgatccta agaccaataa gacgtactgc tagaacaaag agagcatgaa 180

gcacacactt cacaaggtga ctcactatac gaagggcaat gatagcctgt atgaccaggg 240

aaaaccccga tttgaccaca agcagacatt atatagtggt cagaccaagc ctgtattcca 300

caagaagacc aagaccacca 320

<210> 36536
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E5

<400> 36536

aaaaaaaaaa aaaaaacata aaaattataa aataacaaaa aaaaaaaaaa aaaaaaaggg 60

cagggaaaaa aaggaagcga agagaagaca aaatacatgg acaaacaacc aacgcaaaac 120

aggggcgtcc gagctcgagc tcccaggcta aacgccccta ccttgccccc gccatgcacc 180

agcttcggcc cgcgccggtc caacgcacgc cccgcgagat cgccaggacg gcaccgccaa 240

acccccggcc ggccccaacg gctgcggctc ccgagccata ccgcctgccg cccttgcgct 300

agcagggaat cggcctcggg acctccccgg tcccgcccat c 341

<210> 36537
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E6

<400> 36537

ggtgaatctg ccaccacctc ttcttctttt tgccccctct tctcttcccc caccggcccc 60

tttcctcctc cactatttgt gcttctgcca ccgccacctt cctccacgcc gtcagcagat 120

ctgctctgtc ttctcctccc ttcaccagat ctgctgggtg cagggagctt cacagtgatg 180

gatctgaaga gaagtgggaa atggcagaaa agacccggca gctaggtatt gtgcacgtct 240

ctgtgtccgt ccgtcgccgg atctggtcgt agtggagacg tagtgtctga tcaggcagca 300

acagcagcga cgcgtcgata gatactagtt gacgataggg ttgttgtggc aggggcagct 360

gcgtgttgga cgacaacgcg gtgcccatgc cgttggcaag cgtcgcggcc gtggcggca 419

<210> 36538
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E7

<400> 36538

caagaataag tgatgcctta tactgctatg agaaactgca tggtcgatgc actgataatc 60

aaagaagttc ccaggctgat cctgcagatg ctgattctaa accaaccagt ggttcaaagg 120

gaagccatat tcgcactggg actaaagtta ctgaagaagc aggacagccc attccacgta 180

ggcgccaaaa taaaggcaac agaaaagcgc acagctcacg taaacagaga ttctttgctg 240

gtaattttgt gaataatcct gatcagtatg gtggtgtgtc agaaagccct ccaggcaatt 300

cagttggata tttctatgga tctactccag aaaatcacag ttataaaagt tcaaagctga 360

gttcatctcc tcatggaatt cctactggga gctcgcctgt tgggtctgtg cccaaatctt 420

ctccacaatc tcagc 435

<210> 36539
<211> 270
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-E8

<400> 36539

ccaggagttg gttgttaaac ttgttaatag tangaaacag ctggcgcaga aggatggtga 60

gctaatgtaa gcagaggagg aagttcaagt attgcaagaa aagaaccagg aactctgtgg 120

agttgttaga tctctacagg ttgcaactga aggtgctaac gtggtggacg gtgaactgta 180

ggagctaatc acaagactga tttaacagtg atatctcacg gatgtagaaa ttctacgctg 240

gtaataatac gattaagcat ggtcattcat 270

<210> 36540
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E9

<400> 36540

acgcccacgc gtgcgcccac gcgtccttaa gtagggaagc caccaacaga acgtgctact 60

gcagattttt ctggtgcaac gcttgctact gccgcaaata ttggacgcca tgcacaggca 120

gatgttgatc tgtcacgaag agcaatggat aaagcgatga tggatatgct gagagcttct 180

tttgccaata gaaggaatga gcataattgg tctggcgagc ggaaatttga aagatttgaa 240

gagtgctcag gttatagggg tacatggtcc gcaaaaatgg ggaagaggcc aattctgatg 300

gaagatagtc gccgaagcac atattgtgag actcaaccat ccaattcaat atatgagctg 360

ccggtatcgt catcctacaa tgggacaaag aagctgctag taccagttgg ggttcagtta 420

cagcagtcct a 431

<210> 36541
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-F10

<400> 36541

cggacgcgtg gggtgtgctg catgttgata ttgatcctta tgctgttcca aagagcatgg 60

gcatctttca gacaatcagg agcccaaaat ctataacaac attgtcagtg gcgacaagaa 120

tagttgacaa tcatgaagct tacaagaaga ggaacctgaa aaagaaggct agcgaagacc 180

ggtactacac acaaaagaaa ttcgtttctg gagactagtg ctgcacaagg agtgtatatt 240

tctgccagca gtccgaggaa atgcatgtgc caccctgtat tgatgttatt ctacagcaga 300

gactggaaca gataatcagc attagaaagg tcacaatgat agtttgacag gcaagcaatg 360

gtgtggatgg aaccaagcta gggaagagag agagagagag ggagaaaact gtcacattct 420

tctgct 426

<210> 36542
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C12

<400> 36542

agcattgcgt cccaatgccc tggttccata atccaattgc agatgttgaa aaaatcaagc 60

atgaagggat ccctgcgcag ctgtgctccc gtagctgcaa cagtctgttg gatgcaagta 120

tcgtgatgtc acgagtttgg gatttgttgc attccgactg catgggcggt gttgtgaatg 180

ggcatgaaat gccgtgtcct gtttgttgtt gatacttgtg tgtagctgct gaagtgttgt 240

tgttgatgca gtactacttg tgtatacttg tggaaagaga gtgcgcatag gcttagaaag 300

tacagtatct tcatactagg taaagggatg tttctgaagc tcatgtgtac cgcgattgca 360

tgttggcacc g 371

<210> 36543
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-C2

<400> 36543

agacggctag ccggcgcacg gaagcgggca ttggatcgga ggtgagcctc tcctgcgtcg 60

gactgtcccc gcccccgcta ggcgccatga agctgacggt gaagaccctc aagggaacgc 120

acttcgagat ccgggtgcag cccaacgaca cgattatggc tgtgaagaag aatattgaag 180

agatacaagg aaaagacagc tatccatggg gccaacaact gctgattttc aatggaaagg 240

tcttgaaaga tgaaagtaca ttggaagaga ataaagtcaa tgaggatggg tttctagttg 300

tcatgcttag taagggtaaa acatctggtt caactggaac ttcatcttcc cagcactcaa 360

acactcctgc aacaaggcag gcacctnctc tagaggcccc acaacaagct cctcaacccc 420

cggtggcacc aattacaact t 441

<210> 36544
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C3

<400> 36544

accaccgctc cacacacaag aagagagccg agagctagct acctagcgcg cgatggcgat 60

gtccgcttcc aagatgatgg cggtcgccgc cgctgccctg ctagccctgg tcctggccgc 120

gtcgaccgcg gaggcgagga acatcaagac gacgacgacg acgacggaga agaaggacga 180

tgcggtggtg cagccgcaga ccttcccgcc cttcgaccgc ctcggcggcg gcgcgtcccc 240

ggcgtccggt ggcctccccg gcacctcgtc gggcggcagc agcattccag cgttcagcat 300

gccgggcagc ggcagcagcc tccccggcgg gtcgttcttg cccggcagca gcggcagcat 360

cggcagcatg cccctcttca gcggcggctc cccggccttc agcggcttcg gcggcatgcc 420

cgggtccccc 430

<210> 36545
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C5

<400> 36545

caaggatcgg gatcaggatt aggtttccat tcctcctcaa agagtccaca aatgtatacc 60

cttcccttat gtacatcacc acacgaaggg aagttccccg acgagaagtt cgtgcgcaag 120

cacaccgccc ccggtgtgct ctccatggcc aacgccgggc ccaacaccaa cggctcccag 180

ttcttcatct gcaccgtcgc gacccccttgg ctcgacggca agcacgtcgt cttcggccag 240

gtcgtcgagg gcatggacgt cgtcaaggcc atcgagaagg tgggcacccg caacggctcc 300

acctccaagg tggtcaaggt cgctgactgc ggacagctct cctagatctc tctgatctgg 360

tctgttcggc ccgcctccct ccgtcatcgt cgactccccc tgcgtccgtt cctttggatc 420

tgaataagat 430

<210> 36546
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C6

<400> 36546

cggacgcgtg ggcggacgcg tgggctgact cgtggggcct gtttgtcctt gcatggccgg 60

agccagacgt cgcaccttgc ctccaccctc gcattccgat cacccgcttc cagctcctct 120

ccgtctcgct gctcctcctc cgctcgcaga gctgagctga tcgatggacc acgagcagcg 180

gcgccagcgg cagcagcaca gtcccagagg caatgctcct gggagcggga ggtgcggctc 240

ctcgtcgagg aagcacaagg gcgggggcaa gaaacccatc aaagtggtgt acatctccaa 300

ccccgtgcgc gtcaagacta gcgccgctgg tttccgcgcc ctcgtccagg agctcaccgg 360

ccgcgacgct gacccctcca agtacagccc cgaggacctc gccggcgccg ccgtggcggc 420

gggcgaccct gact 434

<210> 36547
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C7

<400> 36547

gactccggtc aacaccataa tcagttcgac taattttcga gttcaccacc agatggtctg 60

ttccattaag attcagcggg catgtgtcta cctacgtcat cactttaatc ctacacccta 120

ttcggtatag tcttagtcac tgaatcctac agctggtcag aacttgaggg cataagcata 180

ccctcatggc tcgcaacagc actcgctgaa cgtatgctta aagcatctgg atcagatact 240

ctttgaccag gaaacgcatc gtcggcggct agaaacgcat tagtattgag tacatgtcca 300

acttcctacg cgtcaagact agctgcattg gtacacgagc cctagttcag gagcataccg 360

gccgttacga tgacct 376

<210> 36548
<211> 243
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-C8

<400> 36548

cccacgcgtc cgcccacgcg tccgttcagg tgntcttgaa ataaaacgga ggggactgta 60

ttctagagtc tagacaaatg gaggcgactt gggtgtcagc tctgagcaaa atctattgga 120

tcatctcaag tcaaaagaga aacagaacaa gcactacaaa taaatgctgc atgtgctaca 180

acaatatgtt ttttttgtcc atgcatgtga aagtgaaata attaactatt gtgtggatgg 240

agt 243

<210> 36549
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C9

<400> 36549

cggacgcgtg ggatctcact ctctgctgtt cgctcactct tgcagctcca ccctgcactg 60

agtcttagtc tcttattagc tctaggctct agctagccgc gccactcctt cgtgtagcca 120

tcagccttct catcgccacc aatggccact gccgaggtcc agaccccgac cgtcgtggcg 180

gccgaggaag cgcccgtggt ggagaccccg ccgccggccg tcgtgcccga ggagtctgcc 240

cccgccgagg ccgaggccga ggccgaggct gctgctcctg ctgatcccga ggagcttccc 300

gcggccgagc agcaggcagc cgccgaggcg gaggccgcgg ctcctgctgg tgccgaagag 360

cccgtcgcgg ccgaaccggc cgtcgaggcg gaagctgctg ctcctgctgg tccccgagag 420

ac 422

<210> 36550
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-D1

<400> 36550

gcctctcccg cgtgttcctg gtggcgaatg tctactgcgt gatccacgtc gtcaacgacc 60

acctctgctc ggtgacctta gtgcggggcg ccagcatgct gccgtccctg aacctggcgg 120

gcgacgcggt ggcggtggac agggtcagcg tgaggctcgg ccgggtcgcg ccgggggaca 180

tcgtgctgat gatctccccc gaggacccgc gcaagtcggt cgtcaagcgc gtcgtcggga 240

tgcaggggga ctccgtcacc taccttgtcg accccggcaa aagcgactcc tncagaaccg 300

tcgtggtacc gcaagatcat gtctgggtgc anggtgacaa tatctttgct tctaacgatt 360

cgaggcaatt tggagctgtg ccttatgggc tgattacagg gaagatcttt 410

<210> 36551
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D10

<400> 36551

acggagagcg ctcgctcaac agctgtgctt ctacagcggc ggaccggcac gccacctgga 60

actgcctcaa gagcatgacg ggccaactcg gcaagcggag tcagcatggc caacgccggc 120

aacatccaca gcaagtgcag cgtatccgtc ggcgtgccca tcagccgcac cgtcgactgc 180

accaagatca actgatcgat ggaaccatag tggagagagc tcgctccttg gataaccgcg 240

gacgtggcca ttatcagcat gcagtcagcg tagtaccata gatgtactag ctacatgtgt 300

gtcatgcatc agactggcac ataatacaaa agtagatcat gcacgcacta gtgatcactc 360

accccagtgt ccctccgatc aatgtcgtcg tcttcgtcgt gtaccttacg tgacacgctg 420

taacacgtac gc 432

<210> 36552
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D12

<400> 36552

gagttctttt gttttgatag catttccttt aaaatagtag gaaaaccttg tgacaacctt 60

gttacagcag ttacaacttc tcaaggtccc ccggtagacc tagccactgt tatgtgactg 120

aaatttaccc tttgcagttg ccatcaatat gtcagcctac tctgtcacaa acagtcttct 180

ctattctgtc tattttaaca aatcatgtaa gacatgcctt catgccatct aacatgccta 240

accatcctca agagttgtat acacaagatg aagaacctag ccttccggtc acacaaaact 300

cttcaacaac atctttggcg aaactatcta cctgtagcaa cgaaagaaac gaggtacaaa 360

acttcttgtt ttcttgccat gtactaccta ttaaaaacat cttatttttt tcacgcatac 420

aacttgataa ag 432

<210> 36553
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D2

<400> 36553

cggctgcagg ggaggcgcaa agcaccacct tatagggcac cagcagcgag ctcaacttga 60

acctcgagct ggaagaccca gacgacgaca ctgatgccga catgagcacc gacgagccac 120

gcgatgtaga agataacagc gcccgtctag aagccgcttg aagcggaaag cattttagcc 180

gctggtcacc tagagatgcg gatcggcctg aatcgtctgc cctagctagg cggattttgt 240

gtaacataat gtagcagcat gtaacttgta tccgccacct cgtcgtcctt cgtctgttcc 300

agtttagaac aatggcattg tccatgactg ttcaagtcca agtgctcatg ttatatttca 360

tagctgttgg ttatgacttg ccactttgtc ctg 393

<210> 36554
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D3

<400> 36554

cccacgcgtc cggacagaca ttgcatttgt tgttgttgga gagatgtttc ctgcccacaa 60

ggtgattctt tcagcccggt ctcctgtttt tagggcgcaa ctttttggtc caatgaagga 120

taaggacatg aagtgtataa agattgaaga catggaggct ccagtattca aggctttgct 180

ccatttcatg tactgggatg agttgccgga tcttgaagag cttactggtg taaatacaac 240

ttgggtatcc accttgatgg ctcaacattt acttgctgct gcagaccgtt atgcattgga 300

gagattaaag ttgctctgtg aacttaagct gtgtgaagat gttgcaataa acacagtggc 360

aaatactttg gcactggctg aacagcacca ctgctatcag ctaaaaactg tttgcttaaa 420

atttgtggct ct 432

<210> 36555
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D4

<400> 36555

cggacgcgtg ggcggacgcg tgggcgaagt catcttggat cgggagacgc agaggtcccg 60

cggcttcggc ttcgtcacct tctccacgga ggacgcgatg cgcagcgcca tcgagggcat 120

gaacggcaag gagctcgacg gccgcaacat caccgttaac gaggcccagt cccgcggcgg 180

ccgtggaggc ggcggtggcg gatacggtgg cgggcgccgt gatggaggcg gctacggcgg 240

tggcggtgga ggctacggcg gtggtcgtgg aggctacggc ggcggtgggg gatacggtgg 300

tgcaaaccgc ggcggcggct acggcaacaa cgacgggaac tggaggaact gagcggtggg 360

gtccgctgag gcctagttat cttgttcgct tctgctaccg tgttcaccct agtctagagg 420

gggtttatct tcgtc 435

<210> 36556
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D5

<400> 36556

ggagcgcgaa gatgggagcg ggggtcggtt tggtcgctgc gagcaaagac aaggccagcg 60

gcggcggcgc cgagcggacg tcgctggacg gcgtgcggga taagaacgtg atgcagctta 120

agaagcttaa tacggcgcta ttccctgtcc gctacaatga aaaatactac caggacgcca 180

tcgcctccaa ggatttctcc aaactagcat actttagcga tatttgtgtt ggtgcgatag 240

cttgtcgcct ggagaagaag gaaggaggag cagtccgagt ttatatcatg accttgggtg 300

tactggcacc gtatcggggt cttggtattg ggacaaagct gctgaatcat gtgttcgatc 360

tctcagcaaa gcaaaacatc tccgagatat acttgcatgt tcagaccaac aacgatgatg 420

caattgcttt ctac 434

<210> 36557
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C11

<400> 36557

ggagaatagt attatgctaa gcttatgctt cggccccttt cgtcggctcc agtcccggct 60

cggcgttgct cctcccctcc attccctgtc ggcctcttgc gctttccggc ctcggattct 120

ttgtcgtgtg cgcccccctcc gttgcatctc gctgcttctc cttcttcttc gctttgcatc 180

tgagttgagc tggagcatcg atcccgtccg cctcgtcctc cccgacgcgg cttcggctgg 240

actccaccgc gctctttagt tcggtttccc cgtcagagct tccaacctgt tctactcggt 300

ttagattttg gagctagagt ttccaaagca aaagctttcc ttttttttcc ctccctcccc 360

tttgcatttg gcatgagggg aaacgctgcg gtttcgcccc ttttctgagc atgctgtcct 420

tgaacaaaat gcatttt 437

<210> 36558
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A8

<400> 36558

gcgatggacc cggacgcggt ggcgttagct ttcgtggagc actactaccg gacgttcgac 60

accaaccgcg cggcgctggt ggggctgtat caggagacct ccatgctcac cttcgagggc 120

cagaagttcc agggcccatc cgccattgcc ggcaagctcg gatctcttcc cttgcaggcc 180

tgcgagcacc agatcgtcac cgtcgactgc cagccgtcgg ggccccaggg aggcatgctc 240

gtcttcgtct ccggttccat ccgcaccggc cccgaggagc accccatcaa gttctctcag 300

gcattccatt tgctgccggc agctgggtcc ttcttcgtgc agaatgacat gttccgcctg 360

aactatggct aaaagacagc cgaaaactct tgtgatgaac cgaattttaa aggcttcatg 420

ttgagacgat ga 432

<210> 36559
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A9

<400> 36559

ggaaaacaac tccacccgca ccgtcacact cgtagggcac gactagcacg accagggccc 60

ggtgaaacac cctggggcgc atccaatgcc acatacaaag ccaccaatcc gacaacgaca 120

ccaacatatc cctagacaaa cctgtcggcg atcgacgggc cagacgacta gagcggaaca 180

acca 184

<210> 36560
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B1

<400> 36560

gcttggtgtt gaaaccagaa gcacaggctt tattttctcc attggaaaag aacctctgaa 60

aacccgtcct tcagtgtttg ctctgggtga acgaataaac attttgaagg aaatcgacca 120

gccagcattg atacctcata tagctgaagc gaagtcacag aaatactcgt atgaagttct 180

tttcagaagc ttgcagaaac ttcttattga tactgccact tcagaatacc tgtttactga 240

tgatttcttt ggcgaagaat ccatattcca tgatatattt gcaggaccga ttcaagttgt 300

tgatgaacat ttcaatactg tactcctgaa ctgttatgat gcaattggca taatgcttat 360

gatcagaata attcatcagc accagctcat catgtttaag cggcgaatcc catgtttgga 420

ctcttaccta gac 433

<210> 36561
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B10

<400> 36561

ctagttctag atcgcgagcg gcttttcctt aatcgactac cacaaaaaca aaaaggaagg 60

tttaaactaa aaaaggggac ggaccatatc aaacaaaaaa aagaaagaaa caaaatcaac 120

caagaccagg acacaaaaaa cagatcaaac aacacaacac accgagaaca ctaaacagac 180

atcaccgaaa aaggcaacaa 200

<210> 36562
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B11

<400> 36562

ctagttctag atcgcgagca gccggagccg gagccggatc cggatgccta gtagatgaag 60

acgttcgatc cgtggccggt cttcttccgc cgggagtgga agcgcaattg gcccttcctc 120

acggggttcg ccatcaccgg cttcatcatc actaagatga cggccaactt caccgaggag 180

gacctcaaga actccaagtt cgtccaggag cacaagaagc gctgaccaac caggtgttgt 240

ccgaattgcc tgtctggaca gccagttatg ttatgctgtt tgaatgaaaa attagcttct 300

ttttcttcat ctaaatgcgt gcagcctatg ctccatctgt aatgtaataa gaggcaactg 360

acttgatcca caagctacca gcttctgatt atgaatgata cttcaagtt 409

<210> 36563
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-B12

<400> 36563

cggcacgcag cgctacgggt ctgttcgtct aggcgctcga tccgtagcct ggtcgttaag 60

gctgcaactg tcgtcacccc aaagtacact tcactgaagc ctctgggaga tagggtgctt 120

gtgaagcttg gtgccgcaga ggagaagaca gttggtggca ttttgcttcc atctactgcc 180

cagactaaac cacaaggagg tgaggttgtt gctgttggag caggaaggac catcggggac 240

aagaaaatag ctgtggatat agagactgga gcacaagtag tatactcaaa gtatgctggg 300

actgangttg aattcaatga ctcanagcat cttattctca aagaagacga tatcattggt 360

attcttgaga cagatgatgt gaaggacatg aagcctctca aatgaccgtg tct 413

<210> 36564
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-B2

<400> 36564

aagaagacga cccataccat acccaactgt ttgcttgaga atagatagac agaaagaaca 60

ggaactcaac caacacaaga cacaacaagc tgcagccgcg gcaggcatgg ggcaccgcgc 120

gcactgacac cgggccccac caccattacc acccgacgca cactttattt agcccacgtc 180

actcgcagcc cgcaccggac acgtccacgc gacagtcact gctagctacg taccgggcta 240

cgtacgacac acacacacac acacacagag agacgccagt aaccgtagcg tactgaacag 300

caaaatcccg tgtcatactg ccatgtacgc gcgcgagaga ctaccccgnc acgcgcgcac 360

gccgatcccc tggggcctgg gccctggccg ncgncgctgc gtgcgcac 408

<210> 36565
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B3

<400> 36565

ggcgtctcct cctcggcggc gaccgccggt gctgttctca cggtgctgct cgccggctac 60

ctcctcctgc tcgtgccaga gctgtcgcct agctcgttct agaccctctg tcaagttgtg 120

ccaccagtag gatttgatgt gttgttgttc tttctagtac gtgacgtgac agacaatttg 180

ctgctggtgt cgttcttgta gtagttgcac tgtgtgttcc tgttatgcta tgggtacgag 240

atgttagggc atgtgttaag ct 262

<210> 36566
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B4

<400> 36566

cggacgcgtg ggttcttgag cgtggcaggc tcaagtatgt ctgccaggcc actgggccgt 60

ccatttggct ctggccctcc tggtgaccgc ccaaggggcc ctggtcgttt tgaagacaga 120

ccaaggtttg gagacaggga tgagtaccgt ggtggtcctc gtggtgcttc cggtgacttt 180

ggtggcgata agagtggagc tcctgctgag ttccagccat ctttcaggag ttctggcgcg 240

aggtctggct ttggccgtgg tggtggcagc ggctttggcg ctggcccgac ctcttcttcc 300

atggagtgaa cagtgaagct gcccttagtt tggacatgat gtttcccctc ccgtgaggcg 360

tttaattttg aaagacggtt attatgtact agtaatgttt tccggatcgg ctagtgctga 420

catgc 425

<210> 36567
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B5

<400> 36567

gatttatcag gaaatccgtt tgctttatgt tatgcaggct cagatctgat tgctggattc 60

ggcatcttac gggcttgaat agagctagga ctgggagaaa acaacaaacc cgcgttggat 120

cctgtatcgg ttagtccttg ccttcaaggt tcatgttgtt ttgttttggt ggtcgagcat 180

cgcatgttct gcttctggtt ccagatctgg agaaatttct aagtcgtcgt cgtcgtcgtc 240

gttcggttcg gagcggatct gaggcgacga tggctggaag cggcgggatc tcttggtctg 300

cagtcctgct tcacctcgat ggatgatgtc tctgcgctga taattattgg atcaatttcg 360

ataattatta gtagatctat gagatatg 388

<210> 36568
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B6

<400> 36568

cccacgcgtc cggggtcctc ctcgtctcag tacctacaca aacaaagcca ccaccatccc 60

agcccagaca catcggccga ccacgggcgc cgccatgtcc accgctgacg cggcgagccc 120

ggccctggcg ccggacgggg acgcgccggc gggcgaaggc ctggccctgg cccagttcgc 180

cgcgggctgc ttctggagcg tggagctggt gtaccagcgc ctaccaggcg tggcgcgcac 240

ggaggtgggg tactcgcagg gccaccgaca cgccctcacc taccgcgacg tctgcggcaa 300

cggcacgggc cacgccgagg tggtccgcgt gcactacgac cccaacgcct gcccctacga 360

cgtcctgctg gacgtcttct gggccaagca caaccccacc actctcaaca gacagggcaa 420

cgacgtcggg ac 432

<210> 36569
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B7

<400> 36569

cccacgcgtc cggagggatt gcactccatt tgatgattca cttcatcaca atggcccttg 60

gaggtgatgg ctacttgaat tttatgggaa atgagtttgg tcacccagaa tggattgact 120

ttccaagaga agggaacaac tggagctatg ataaatgcag acgacagtgg agccttgtgg 180

acactgatca cttgcggtac aagtacatga atgcgtttga ccaagcgatg aatgcgctcg 240

atgagagatt ttccttcctt tcgtcgtcaa agcagatcgt cagcgacatg aacgatgagg 300

aaaaggttat tgtctttgaa cgtggagatt tagtttttgt tttcaatttc catcccaaga 360

aaacttacga gggctacaaa gtgggatgcg atttgcctgg gaaatacaga gtagccctgg 420

actctgatgc tctg 434

<210> 36570
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B8

<400> 36570

tgtttacatc taacgttctt tttgttgcat ttgaaaatca atattgcatt gtggaccatg 60

ggctactgaa gacatatgtt ttgtttacac aaatgaaata gaaatctgaa aaaaaaatgt 120

tctgtgaaca ggttaccatt agcctggaac tgcgacaaaa taagaataat cgaaaccaat 180

aaagcctagc gttttgttgt tctactcggt cattttcgtg tcctaaactt gtaattttgc 240

tggaatattg tacagggcat ctgatgcaag gtgcaaagac tggtgtttgg tctgcggttg 300

ctttcaagga gttgtgtgcc ggttgcttgc acatctttaa ctctgggtct gaagagcaaa 360

tcagaagtat ttatggttta ggaaatatgc acctgctttg ctggagaact ttgtcctgct 420

atttatttat agacac 436

<210> 36571
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B9

<400> 36571

ggattccggt cctattgtgt tgttctactt gatcggttcc aacaccagcc ggcgtcatgt 60

cgaagcgagg taggggaggt tcggctggga acaagttccg catgtcactg ggtctaccgg 120

tggcggccac ggtgaactgc tcggactaca cgggcgccaa gaacctctac atcatctccg 180

acaagggcat caagggccgc ctcaaccgcc ttccgtccgc ctgtgtcggc gacatggtca 240

tggccaccgt aaagaaggga aagcccgacc tcaggaagaa tgtgatgccc gacgtcatcg 300

ttcgccagcg caagccgtgg cgtcgcaagg acggtgtcta catgtacttc gaagataatg 360

ctggagtgat tgtgaatccc aatggtgaga tgaaaggttc tgcaatcact ggacctatcg 420

gcatggagtg tgct 434

<210> 36572
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C1

<400> 36572

ctgaaatgaa gggtgggtgg gtgggtcgac tcactgtccg ccgccgaagc cgagctccct 60

cgcaaatctc tcgcatcgcg ttcacagcag atggcgggga aggaggagag gaagcgggtg 120

ttggtggtgg gcggcagcgg ctacctgggc cagcaccttc tcgcggcgtc ctgcaccgtc 180

gaccgcctcg acgtcgcttt cacccaccac agccccgacc cgacgcagcc gctcctggag 240

acgctccctc ccgtgcgcgc attccgcgcc gaccttcgct ccggcgacgg cttcgaggcg 300

atctccgcgt cctttggcca gccacacgtg gttgtcaact gtgctgcgat gtcagtttct 360

cgggcatgcg aattggatcc acctgctgct atggctacca atgtgccttc ttcgcttgtg 420

aattg 425

<210> 36573
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-C10

<400> 36573

ctcgtcgctt ccgctccaca ggattctctt cgccacccac aaccgtgtga ccgtgcgtgc 60

tgccggcgac ccctatccgc cgacccgtcc gtcccaccac accccaccgc cgctcgcagc 120

tatgtcgccg tcggagccga cgcgggagga gagcgtgtac atggccaagc tggcagagca 180

ggcggagcgg tacgaggaga tggtcgagtt catggagcgc gtcgcgcgct ccgccggcgg 240

cgccggcgga ggggaggagc tctccgtgga ggagcgcaac ctgctgtccg tcgcctacaa 300

gaacgtcatc ggcgcccgca gggcctcgtg gcggatcatc tcctncatcg agcagaagga 360

ggagggccgc gggaacgagg cgcacgccgn cttcattcgc gcctaccgct ccaagatcga 420

gaccgagctc 430

<210> 36574
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-A7

<400> 36574

cggacgcgtg ggcggacgcg tggttgcgtt actggtccac ggacgtaaac ctgtcgtggc 60

tgggcatggg cgagctgggc cacgtccacg tcggcttcct caaggcgctg ggcctgcagg 120

aggaggacgg caaggacgcc acgcgggcgt tccccaaggc cgcccccaac gccgtcccgg 180

gcaagccgct ggcctactac gcgctgcgcg aggaggtcca gaagcagctg cagaagcacc 240

cgaacgccaa cgtcgtggtc accggccaca gcctcggcgc cgcgctggcg accatcttcc 300

cggcgctgct ggcgttccac ggngagcggg gcgtcctgga ccggctgctc tccgtggtca 360

cctacgggca gccgcgcgtg ggcgacaagg tgttcgcggg ctacgtgcgc gccaacgtgc 420

ccgt 424

<210> 36575
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-H11

<400> 36575

cccacgcgtc cgcggacgcg tgggtcctct cctcgcggcg actcttgcca agcattcctg 60

cgcgaaaaac gcatccgctc caaggggagt tgatcgagaa gcgttggtgg acatgggtca 120

gatccagtac tccgagaagt acttcgacga cacctacgag tacaggcacg tcgtcctccc 180

gccagaggtc gccaagctcc tccccaagaa ccggctcctc ttcgagaacg agtggcgcgc 240

gatcggagtg cagcagagcc gcgggtgggt gcactacgcg atccaccgnc cggagccgca 300

catcatgctg ttccgncgnc cgatcaacta ccagcagcag c 341

<210> 36576
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-H12

<400> 36576

cccacgcgtc cgcccacgcg tccgactact tctccctctc cgtcgcgaca caggccacgg 60

cgggcggcgg cggaggcttc cgtgcggctc ttggcggatt gaacgcccac tcgagctgcg 120

ccggctgctg tttcagccgt ccttagatag accctgcttt cctcccgggc aaatccaagt 180

tgcccaaatg ccgacaccag tgaagtcggt gctgcccgta gtgctcctcg gctgcggcgg 240

cgtcggccgc tacctactcc ggcacatcgt ctcctgccgt accctccacg ccaaccaggg 300

cgtggccatg cgggtggtgg gcgtcgccga tagctcctnc ctgctcgtcg tcgaagatgt 360

ccactccacc ggcctagatg acgc 384

<210> 36577
<211> 378

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H2

<400> 36577

cggacgcgtg ggtgtgaccc tccctcagtc gcgttgcgtc ccatcctacg atccaaaggt 60

ctctctgctc gcagccatgg cgaagaacta cccgaccgtg agcgccgagt acagcgaggc 120

tgtcgagaag gccaggcgca agctccgagc cctcatcgcc gagaagagct gcgccccgct 180

catgctccgt ctcgcgtggc actccgcggg gacgttcgac gtgtcgtcga ggaccggcgg 240

tccattcggc acgatgaagc atcagtcgga attggctcac ggcgctaacg cggggctgga 300

catcgcggtg cggctgctcg agcccatcaa ggaggagttc ccaatcctgt cttacgccga 360

tttctaccag ctcgcggg 378

<210> 36578
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H3

<400> 36578

cccacgcgtc cgcccacgcg tccgggagtt tattggcacc aaaggcagtg aggatgaagc 60

tgtggaggag atggagactg caggtaatgc ttttatggct gctgcccagt caatgaaggg 120

ggtgactgac ggcatgagga agaggaagag ctgcggatat gaaggtgcag cagctgtgaa 180

gtttgtgaag tacaaggttg aagatagctc gctgaaggac tacctgtcag cagctaatgg 240

cataagcagt ggaagtgagg tagagaaccc gcagtctgat gatgagatgg aagaatcaaa 300

ctgatgcata gaaacgagat cacccgctaa tgcttacttt ggacagttgc ttttgagagt 360

tccttggaca gccgcctttt tttggagcca ggaccagtct tgtttcagct gccgcttgtt 420

tatgatgccg tgcagaatct gc 442

<210> 36579
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H4

<400> 36579

gtacaccaag cccaagaaga tcaaacacat gcactttaag gttaagctct ccgtgctgca 60

gttctataag gtggacgaca ccactagcaa ggtgacccgc ctccgcaagg agtgccccaa 120

cacagagtgc ggcgcgggcg tcttcatggc caaccacttc gaccgccact actgcggcaa 180

gtgcggtctc acctatgtct acaaccagaa ggcgtaattg cttgccccga tttgctttat 240

ccgcctaccc tatcgaacat ccagctgtcg gttactcgaa ttgtatctca tgtagatctg 300

tctgaggttg aaacttaaat ggagcagtag tatctgtcat attggtaccc ctgttactga 360

attgatgtga tgctgagttt a 381

<210> 36580
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H5

<400> 36580

cggacgcgtg ggcggtcggg tagcttcaat gccgccgccc gccgctcggg gatcgcctgc 60

tttcctctgc cgaccacatc tacaccgcac caccggtcct tccaagtgag cttcaacccc 120

ctgcgtgtag atggagaggg ttctcaagga tgacgccgtc gaggagaagg gcgagcgcgc 180

cagaatggca tcgtttgttg gggccatgtc aatctcggat ttggcgaaga ccacattggg 240

tccaaaagga atggacaaga tcctgcaatc aactggtaga gggcgtaatg ttactgttac 300

aaatgatggg gctaccattt tgaagtcact tcacattgac aatcctgctg caaaggtcct 360

tgttgacatc tcaaaagttc aagatgatga agttggtgat gggacaactt ctgttggtgt 420

tctagctgga gaacttt 437

<210> 36581
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H6

<400> 36581

cggacgcgtg ggcagaagct tctttaaatt gctaaagccc ggtggcaaag tcctaatcag 60

cgactactgt aagaatcctg gaaaaccatc agaagaattt gctgcgtaca ttaagcagag 120

aggctatgac cttcacgacg tgaaggctta tggacagatg ctgaaggatg ctggttttca 180

taatgtcatc gcggaagatc gcactgagca gttcttgaat gttctacaga gggagctagg 240

tgaagttgaa aagaacaaag acgctttcct ggcagacttc acccaggagg actatgacga 300

cattgtgaat ggctggaacg cgaagctgaa acggagctct 340

<210> 36582
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H7

<400> 36582

cccacgcgtc cgcaaaattc gacatgtact gagtccaaca acttccacgg taccgaacag 60

taaagcattc gataaaaagc ctcttccagc gtcaccggcg gcttggatta ggatccagga 120

tcagaagatt tctgtaccgg cttaattgtt aatgtatttt tggtgtgtgc aacatctccc 180

accagatggt gttaacactt gtagtgtgtg atgctaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaagaacaaa aacacaaaaa aaacaaaaat aaacccaaaa agactatgac 300

aacattgaaa aatggataga acaag 325

<210> 36583
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H9

<400> 36583

ctgaagacaa ttcagttcct gattttcatt tgagctgtgc agcagttaaa agaaaaaggc 60

catactttgt aagaataata agcaagcaga tggttggagt gtacctatca atatgggtac 120

gaagaagcct ccgaaagcac attcagagtc tgaaagtatc aactgtaggg gttggtgcta 180

tgggctacat tggtaataag ggatcaatat cagtaagcat gtccatatac caaacacact 240

tttgctttat atgttgtcac ctaacctctg gagaaaagga aggagatgaa ctaaaaagga 300

atgctgatgt tcaagaaatc caccgaagga caatatttaa tccagtttcg agagtcaaca 360

tgcctaaaac gatatatgac catgaaagga ttgtatggct aggtgatctc aactatagga 420

tcaa 424

<210> 36584
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A1

<400> 36584

cccacgcgtc cggctcttgg tccacaccat ttgcattaac ttcagggagc tcggtctctg 60

ctccgctacc ttcttgatcc tcctcagaag agccagatga aaggatgttg cgcagcgacc 120

ttccggagat ggaaagcgag ttcagctgcg actccaccct tcgcatgaac tccatcgcct 180

cctgcagctt gccaacggtg gcggcctcct cgacgcatgc gtcaaggcga aggagccctc 240

gtcgtcgtct ccctacgcag gcgacgtcga ggccatcaag gccaagatca tctcgcaccc 300

acactactac tcgctgctca ctgcctacct cgagtgcaac aaggtggcgg caccaccgga 360

agtgtctgcg aggctgacgg acatagcgca agaagtggaa gcgcggcagc gc 412

<210> 36585
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A10

<400> 36585

ccgacccacg acccacgccc acgcccacgc aaacgcacac tcagcgtccc cttaaaacga 60

tcaccaccca caacacgggc aggacacaat acccggggcg acgcccacac gaccaacaaa 120

ccggcacaca caccgcagat ccaaacacat accctaccac acagacaaaa ccgcgggata 180

gaagatgacc cccgccgggc acaaccacaa ccccccaaca agacacaccg cgggaccaca 240

gcagcaacgt gctacaacaa caacaccaac aaccgcgctg aacggcaaca acacaaagac 300

<210> 36586
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A11

<400> 36586

aaaaaaaaaa aaaaaaaaaa aaataaaaat aaaaaaaaaa aaaaaaaaaa aaagagaaaa 60

gagaaaaaaa aaaaaaagaa agacacaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaaaa 120

aaaaaaaaga aaacacaaaa aaaaaaaaag gagaccaaaa aaaaggcgaa cgaatggact 180

gaacaaaaaa gccaaccagc aacgccatcc tctgccacgc cgaaaacggt atgatcggcg 240

actatacccg gggccgacta ta 262

<210> 36587
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A12

<400> 36587

cccacgcgtc cggaaacaaa ggttcaggtt tctgaaggtc taggagagtt aattgatgta 60

acaagcgaga agactcttaa ggaagttgta gtgccaatta caggacctct tatccgcatc 120

cttggtgatc ggtttccatg gcaagttaag tcagcaatcc tatcaaccct gacaatcatc 180

atcatgaaag gtggaattgc acttaagccc ttccttccac aacttcaaac tacattcgtg 240

aaatgtctac aggataacaa taagtctgtc cggacgaggg ctgcagctgc tctcggaaag 300

cttagtgctc ttagcacacg ggtggatcct ttagttagcg atcttctgtc catgttgcag 360

tcaagagatg aatctgtaaa agaaagtgtg ctttctgcac tcaaaggtgt tatcaaacat 420

gctggcaaaa gtgt 434

<210> 36588
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-A2

<400> 36588

gtcgacctca gtgaagctac aggtcaagag tgagagctgt cgaacagaga tagcacactc 60

caccagtcgc ttgtagtgga agtacctgag tcggtgagca tttctgatac aaacgacatt 120

agtggggaac ctgaacacag tagaactgac attgatgagg acccaagtga acttactcca 180

agaacctaca atattaaaag aatcgaggat tggatcaatc agattgatat caatgatatc 240

gctttggatg ggcaaggaga gaattcagtt tctgctttag ccaaatctcg tgaaccgatg 300

gctggcgttc ctgctgtgcg gnctgatgct aaaagcccgc ttggtatgga gatagcttac 360

acttatattt c 371

<210> 36589
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A3

<400> 36589

cccacgcgtg ggaaaaaaaa aaaaaaaaaa taaattataa aaaaaaaaaa aaaaaaaaaa 60

ggaaaggata aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa gacaaacaaa 120

aaaaaaggaa caaaagtaaa caaagaagaa cagacaaaaa taaaagaccc aagagagact 180

aactaaaata aaatacaata gtaaaaagaa taaaaaatag gatcactgga aaaagatatc 240

aatgaacata acataagatg ggtaaagaaa gaatacactt tg 282

<210> 36590
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-A4

<400> 36590

gcatgtccat aatgctcttg gaaaaatcat tancgtcagc aacaacaatc ctgagcattt 60

ccttactacc aacccatttt acgactctcg tgttgtgggt aaatattgtg aaaagcggga 120

tcctacactt gctgttgttg cttacagacg tgggcagtgt gatgatgaac ttattaatgt 180

cactaacaaa aactcattat tcaagctaca agctagatat gtggttgaga gaatggatgg 240

tgatctgtgg gataaagttc ttcagcctga gaatgaatat agaaggcaac tcattgacca 300

agtggtttcg actgcgttgc ctgagagcaa gagccctgag caagtgtctg ctgctgntaa 360

ggctttcatg actgctgacc tgcctcatga actgattgag cttcttgaaa aga 413

<210> 36591
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A6

<400> 36591

cccacgcgtc cgtgatgcgc aagtattggt ttaaggcaaa gccggcggcg agctcctgca 60

gcccgtggta cggtcccgac cgcgtgctct acctgggccc gctgtccggc gcgcccccga 120

gctacctgac gggcgagttc ccgggcgact accgatggga caacgcggag ctgtcggccg 180

acccagagac gttcggcaag aaccaggagc tggaggtcat ccactaccgc tggggcatgc 240

tgggcgcgtt gggctg 256

<210> 36592
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F6

<400> 36592

acgtctttga cgttgatgaa atattaataa atatattaac atctacaagt ccaaataaat 60

acacaataac attttcattg ataattttat aaaatggaat caatttgatg ttggagcatt 120

tttctacaaa ccttgtcaaa gctagagaag tttgacctat gacattgcta aagtgatcta 180

taatttggaa tggaggatgt ctttagtttg atctttattt tatgcttgaa taaaatcatg 240

gctagactct tgtagttagt aattcattat attgttctct tatttcaggt ttgttctttc 300

tgcagatcga acctatccgc aacttattcg ctgctctttt ccttgccagc attgggatgc 360

taattaatgt ccatttcttg tggaaccatg tggatatact ccttgcagcg gtaatttttg 420

tgatcaccgt 430

<210> 36593
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-F7

<400> 36593

cccacgcgtc cgcccacgcg tccggctaat aaatccaaat taaagcgtgc tcacttgact 60

gagcataatg atatttcacc ttgtaagaat gaacttgatg atttccatga tcttccagat 120

atatctcttc catctgataa acaaataaaa agaaatcggc atcgttcgct gctattatct 180

gagtccgatg atgatccagc tgatgtaggt actgaaaaac ataacatatt tactgttact 240

gaagttggtt tcttcccaca accttcagag gtgcctccta tgcatgggca agggatttct 300

gatcagttcc attttcccgt tgaatcacga gagacatgtg aaattgctga ttctttccaa 360

aatccacctg anagcaacat gtatgggtcc atttcacaag tttgtgatac atttatgtca 420

caggacgtgt catgtgt 437

<210> 36594
<211> 317
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-F8

<400> 36594

cggacgcgtg gggcaaggcg gttttatctc attgatgcgc tcgtgaggct gagcggaatg 60

actgcagagg gccaaggtgt gaaggttgaa tcctcagcag ttccttcagc cccaactcca 120

gatgttgctg aagcacaggc cccagctgct gaggaggagg acgatgatga tgttgacctt 180

tttggtgagg agaccgaaga tgagaagaag gctgctgaag agcgtgctgc agctgccaag 240

gcttctggca agaagaaaga atctgggaag tcatcagttn tacttgatgt gaagccatgg 300

gacgatgaga ctgacat 317

<210> 36595
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F9

<400> 36595

cgagtggcga tggcagtact gcacttgcat gtggtggcgg tggcggtgct gctgatggcg 60

acggggctgc gcgcgcagct gcgggtgggc ttctacgaca gctcgtgccc agcggcggag 120

atcatcgtgc agcaggaggt gagcagggcg gtggcggcca acccgggcct cgccgccggc 180

ctgctccgcc tccacttcca cgactgtttc gttgggggct gcgacgcgtc cgtgctcatc 240

gactccacca agggcaacac cgcggagaag gacgccgggc ccaacctcag cctgcggggc 300

ttcgaggtcg tcgatcgcat caaggcgcgc gtcgagcagg cctgcttcgg cgtcgtctcc 360

tgcgcggaca tactcgcgtt cgcggccagg gacagcgtcg cactcgtaag tcactgcttt 420

ttagtgtcag tggacg 436

<210> 36596
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-G1

<400> 36596

cagcctctcc gcctccgctc ctcgcgccgt tcgcttcgtc tcctcctgta caggtaagga 60

gaggaagagg gcgaaatggt gaagcacaac aacgtcatcc ccaacgggca cttcaagaag 120

cactggcaga actatgtcaa gacatggttc aaccagcccg cccgcaagca gaggcgccgc 180

atcgctcgtc aaaagaaggc tgtgaagata ttcccccgcc cgactgctgg tcctctacgc 240

cccattgttc aatgccagac tttaaagtac aacatgaagt caagggctgg gagaggcttt 300

acccttgagg agctgaaggc tgctggcatc ccaaagaagc ttgctccaac cattggtatt 360

tctgttgatc accgncgcaa gaacaaatcc cttgagggac t 401

<210> 36597
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G10

<400> 36597

ctggttaaaa aaaccaccac tattgcacat acatgtgtca tcttagtgta caacgccaag 60

tcatgatctc gacttgccta tgcaatgcaa cgtgaaacaa aagacacaca tgcatctcgc 120

agcatcaatc aatccacgta cgtacaccct ctccgatccg aaagacaatg aagttgcata 180

gcatagccgc tgagcttagt tgctggggac gaagttggag gcgtatgccc atgcgatgtc 240

gttgactggg tcagcga 257

<210> 36598
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G11

<400> 36598

cccacgcgtc cgggctctct acacgtctat gacgctgcat cacgtagcgt tcggcatcgc 60

ggcgttgatg aggtcctgtg acaagcgatt ggagttcata taggtgtgga ggctcctgct 120

cagcgacctg cactgctacc tgtcgctgga ccacaaggtg cgcgagtaca acatgttcac 180

cgcgcacaca cagctcatgg tcatcacgat ctcgaccgac acggccgacg ttacactaca 240

ctcacctgca gactcaccgc tccgacatac gtatctcctg tatctgatca ctgacgattc 300

gcctcgaact atcaggattg cgct 324

<210> 36599
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-G12

<400> 36599

actgcgacta aaaaccatct ttggggccct tcgccgcgat ttgcttcgct tctcggacta 60

ggttaagttg ccttttcgat tctcagaaaa agactggctc tgcactcgga taattttaaa 120

atggatagtg cacagcagcc cactggggaa ttgaacaatt cgttcgatac tcttatggtt 180

tctggaggtg accagagtcg acagcctcag gatgctggca atgaaacgag cttcacgaat 240

tggaaagacc tccccatgga gctgctcctg cgtatcattt cactagttgg agatgacagg 300

atagtcattg tggcctccgg tgtatgcaca ggatggcgtg acaccttggg gtgggggttt 360

gcaaatcttt cactatcatg gtgccaggac cgcatgaatg actnggtgat atcactggct 420

cacaagttca cga 433

<210> 36600
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G2

<400> 36600

cagtctcttc gcctcctatc ctcgcgcctt cgatgcgtct cctcctgtac aggtaagggg 60

aggaggtggg ctaaatggtg aagcgcaaca acgtcatccc caacgggcac ttcaagaagc 120

actggcagaa ctatgtcaag acatggttca accagcccgc ccgcaagcag aggcgccgca 180

tcgctcgtca aaagaaggct gtgaagatat tcgcccgccc gactgctggt cctctacgcc 240

ccattgatca atgccagact ttaaagtaca acatgaagtc aagggctggg agaggcttta 300

cccttgagga gctgaaggct gctggcatcc caaagaagct tgctccaacc attggtatat 360

ctgttgatca ccgccgcaag aacaaattcc ttgagggact g 401

<210> 36601
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G3

<400> 36601

ctggattcct cttgcagcca cttcgggcgt gggtgggatc ggcccgtggc cggcggagat 60

gtccggattc gtcggtgtcg tcgtgtccga cccctcgctg caggggcagt tcacgcaggt 120

cgagctccga tcgctcaagg ccaagttcgt gtctctgaag agagattccg gccatgtcac 180

cactaagaat ctcccggcga tgatgaagaa gctgaggggg ctcaatgagg tggtctctgt 240

ggaggagatc gcggccttcc tgtccgagtc gtaccccgac agcgatcagg agattgaatt 300

cgaatccttc ctccgggagt atctgaatc 329

<210> 36602
<211> 195
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G4

<400> 36602

gagcacttat gtactcaatt aattggactt ggctttacat tcgggacggg taatcaacaa 60

ctggaacagt agatagtctg agagtggcca tccaggaggc agaagccaat cccgaccatg 120

ttggagacac tgagcggagc acaccgagtc ctgctgacta acggtctcga cttcgatgac 180

accgcgctca cgctc 195

<210> 36603
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G5

<400> 36603

gtcgctcttg agcttgcgtg gatgaacaat atgttggact ttgccttccc atacctgttg 60

cagttcatcc gtgaatacac tagcaaggtg gatgatttag tgaaggacag aattgagtca 120

cagaatgaag aaagagtcaa agagaaggag gagaaagatc ttgttgctca gcagaacatg 180

tatgcgcaat tgcttcctct tgctttgcct gctccgccaa tgcctggcat gggtggccct 240

ccacctccga tgggtgggat gggcatgcct ccaatgggtg gaatgggtat gccgccgatg 300

ggccctggtc cgatgccagc attcgggatg ccagcaatgg gaagctactg agatgttttt 360

gcagagagct tagacgatga tttgaatcgt ccctgtgtaa gcgaaggtgg aaacttcatt 420

gg 422

<210> 36604
<211> 285
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-G6

<400> 36604

ctcgatccgc acacctcacg cctttcttcc tctcgcccca aggacaacga aaacatcaaa 60

caagagaacc aaaggaaaca gagcaagagc atcgctctcg aagcaaaacg cgcaccacgc 120

cgtcgccggc cggccacttc gcacgtacgt aggacgcgca cgcaccggtg catatatggg 180

gctcctgaac cagctgtggg acgacacggt ggccgggccg cgcccggact ccggcctcgg 240

caagctccgc aagtacgcct ncttcntccc ctcgtcgtcg tcgtc 285

<210> 36605
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G7

<400> 36605

gttgacaaag atatgagcca tccacaaatt ccaaagagaa ttgaggatgc taagattgcc 60

atcttgacat gcccatttga gcctccgaag ccaaagacaa agcataaggt tgacattgac 120

actgtcgaga aattccagac actgcgtgag caagagcaga aatactttga tgaaatggtt 180

cagaagtgca aggatgctgg tgcaaccctg gttatttgcc agtggggttt tgatgatgaa 240

gccaatcatt tattgatgca cagaaatctg ccagcagtta gatgggttgg tggtgttgaa 300

ttggaattga ttgccattgc tacaggaggg cggattgttc cgagattcca agagttgagt 360

cctgaaaagc ttggaaaggc tggattagtc agagagaaat cattcggaac 410

<210> 36606
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G9

<400> 36606

cccacgcgtc cgggcatccg cagagagctt gttccgtcca ggcaaccaaa aagcaagttg 60

ccccgccgcg cagaggaaga agagagcaga ggaggatggc tcgtacgaag cagaccgccc 120

gcaagtccac gggaggcaag gccccccgca agcagctcgc caccaaggtc cgtccgtctg 180

cccttctcta cccgtttcgg atccgctgtt ctgttctcta gggttccctt ctgagacgcg 240

ccggcggttg tgctgtggtt gcaggcggcg aggaagtcgg cgccgacgac cggcggcgtg 300

aagaagcccc acaggtacag gcccggaacc gtggcgctgc gcgagatccg caagtaccag 360

aagagcacgg agctgctgat ccgcaagctg cccttccagc gcctggtgcg cgagatcgcg 420

caggacttca agacagacct 440

<210> 36607
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-H1

<400> 36607

cccacgcgtc cggcgaacga cgccatcatt ctgttcggca actacttcgg cccgccgtgc 60

gtgacggtga cgccgctcca ggtgctgcag ggctacgtga aggacacgag cttcgtcgcc 120

ggctgcaact cggccgcctg caacgtcacg acgatccccg aggcggtcca ggcggcgagc 180

tcggcggact ccgtcgtctt gttcatgggg ctggaccagg accaggagag ggaggaggtt 240

gaccggctgg acctgacgct cccgggacag cagcagaccc tcatcgagag cgtcgcgaac 300

gcggcgaaga agccggtgat cctggtgctg ctctgcggtg ggcccgtgga tgtgagcttt 360

gcgaagacca accncaagat tggggccatc ctgtgggctg gctaccccgg cg 412

<210> 36608
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F5

<400> 36608

cccacgcgtc cgtccattcg tgcgttcaat aaatccaaaa taaagcgtgc tcactggact 60

gatcattatg atagtggacg gtgcaagaat gaacttgatg attaccatga tcttccagat 120

atatctcttc catctgataa acaaatgaaa agaaatcggc atacgtcgct actattatct 180

cactacgatg atgatccagc tgatgtatgt actgaaaaac atagcatata tactgatact 240

gaacgctgtt tcttcccaca accttcagac gtgccaccta tacatgagcg acgga 295

<210> 36609
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-044-Q1-K1-E1

<400> 36609

cccacgcgtc cgcccacgcg tccggcacgt aactcgcctt cgggccctga gataaaatct 60

cccggcgctc gcttggtccg ccaaaatcca ctccttggaa tttcctgagc tgtcggaaaa 120

tttctctttt tgttttggtt cttctttgac cccttaggtc gctagcattt gtgcgttccg 180

ccgaagctcg ctggtttgat ccgtcctagt tgcggaagcg cctcttgatt tggttctaaa 240

atacatcgtt ccttgttttc atccttccga agggggggaaa atcatctttt ttgggccctg 300

atttgagtgt gtcacctttg cttccggcaa tggggaacag cagcagcagc aacaggcgtn 360

cgccggggcc a 371

<210> 36610
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E10

<400> 36610

cccacgcgtc cgcccacgcg tccgcccagt atggattgac tttccaagag aagggaacaa 60

ctggagctat gataaatgca gacgacagtg gagccttgtg gacactgatc aattggggta 120

caagtacatg aatgcctttg accaaaccat gaatgcgctc gatgagagat tttccttcct 180

ttcgtcgtca aagcagatcg tcagcgacat gaacgatgag gaaaaggtta ttggctttga 240

acgtggagat ttagtttttg gtttcaattt ccattccaag aaaacttacg agggctacaa 300

agtgggatgc gatttgcctg ggaaatacag agtatccctg gactctgatg ctct 354

<210> 36611
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E11

<400> 36611

cccacgcgtc cgggcgcaga gaatccccat gcaatcaaac agggtagagg gagaggagag 60

gagaggagag gagaggttgg gtctgggaca ccatggctcc gatgaagctg tacggggcgg 120

tgatgtcgtg gaacgtgacg aggtgcgcaa cggcgctgga ggaggctggc tccgactacg 180

agatcgtgcc catcaacttc gccaccgccg agcacaagag ccccgagcac ctcgtccgca 240

acccgtttgg tcaggttcca gctctgcagg atggtgactt gtacctcttc gaatcacgag 300

caatctgcaa gtacgctgct cgcaaaaaca agccagagct gttgagggaa ggaaacctcg 360

aggaggcagc aatggtggat gtttggatcg aggtggatgc taaccagtac accgctgcac 420

tgaa 424

<210> 36612
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E12

<400> 36612

cccacgcgtc cgcccacgcg tccgcaggct taacatccat acaactgggg ttacgaaccc 60

cgaacaactt gattcgtaga ccacacaact atggggacac aaatcatccc cacttaattt 120

tggacctgta caactagggt acacacctga cacgtcctgt ccaaagacca aaggctgtta 180

atccaatctc ttggcaccac aactcaccta gaagagcatc actgataatg acttacaact 240

atctctacaa aaaaaaaaca gccaagcatg cctggacaac catgctagtc caaaatccaa 300

atgtcagggc aactactcaa agctgcctgt acaaaaccaa aaactaataa ggaaaaagag 360

tggcatcaaa ctagatggaa agtgccaagc tacagagctg gaatagccta gtgaaacctt 420

caagaaggta atga 434

<210> 36613
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-E2

<400> 36613

cagaaaatca actccttccc aaatccacgt tgccaccaac tcgccgtcct ccgcgccaag 60

caccaaagct ccgatggccc gcactaaaca gacggcgcgc aagtcgacgg gcggcaaggc 120

gccccgcaag cagctggcga ccaaggcggc gcgcaagtct gcgccggcca ccggcggcgt 180

gaagaagccc caccgcttcc gccccggcac cgtcgcgctc cgggagatcc gcaagtacca 240

gaagagcacg gagctgctca tccgcaagtt gcccttccag cgcctcgtcc gtgagatcgc 300

gcaggacttc aagaccgatc tccgcttcca gtcctccgcc gtcgccgcgc tgcaggaggc 360

cgccgaggcc tacctcgtgg ggctctntga ggacactaac ctctgcgcca tncacgccaa 420

gcgcgtcacc atcat 435

<210> 36614
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E3

<400> 36614

tgtagttttg ctggtgtagt gagtgtttat tactcatgca ccaacatctt cgtggcttat 60

gttgtcacgt tcaggtctcg ttggctttat taagcttttt tcacttgaaa agattgatta 120

cgaaacaaac atgtgattta ttgttaaaaa aagtaaatca atctatcgca atagttaatg 180

gaggtcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaataa aaaagataaa aaagtacaaa 240

aaaaaataaa aaaataataa tacaaaagta aaccttaaaa aagaatatat cgtaagatca 300

aacaagaata aaaaaaaggg gctgcccttt taaag 335

<210> 36615
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E4

<400> 36615

aaaatatccc caaaccctag ctcccgattt cgattgcgaa ccctcgcgtc ttcttcgaca 60

tgaccgtcgg cggcgccccg gcgggccgga tcgtgatgga gctgtacgcc aacgaggtgc 120

ccaagaccgc ggagaacttc cgcgcgctgt gcacgggcga gaagggcgtg ggcaagtccg 180

ggaagccgct ccactacaag ggctccacct tccaccgcgt catccccgag ttcatgtgcc 240

agggcggcga cttcacccgc ggcaacggca ccggcggcga gtccatctac ggcgagaagt 300

tccccgacga gaagttcgtg cgcaagcaca ccgtccccgg tgtgctctcc atggccaacg 360

ccgggcccaa caccaacggc ttccagttct tcatctgcac cgtcgcgacc ccttggctcg 420

acggcaagca cgtcgtcttc ggccaggtcg tcgagggcat g 461

<210> 36616
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E5

<400> 36616

cccacgcgtc cgtggacgcg tgggttgact cgtgggcgct gggccaccag ctttgaccgc 60

cgccttcctt cccctgcgct actgctcctc ctcaccccac tcccccgcag gagcggcggc 120

ggcggcggcg aggtcgtacc ccacatcggc gagcggcggc ggcaccgccg gaggcaaagg 180

caagatgttc gggcgcgcgc cgaagaagag tgacaacacc aagtactacg agatcctcgg 240

ggtgcccaag tcggcgtccc aggacgatct caagaaggcc taccgcaagg ctgctatcaa 300

gaaccacccc gacaagggcg gtgaccccga gaagttcaag gagctcgcac aagcctatga 360

ggttttgagt gatccagaga aacgtgagat ttatgatcag tatggtgaag atg 413

<210> 36617
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-E6

<400> 36617

cccacgcgtc cgcccacgcg tccgtccact cgtccgcgga cgcgtggggg gcgtcttcca 60

cccgttcctc tccggcggcg tcaccgtgcc cgacgccacc gtctccaccg cccaggcgtt 120

cttcaccgag ttcatcatct ccttcaacct cctcttcgtc gtcaccgccg tcgccaccga 180

cacccgcgca gtgggtgaac tcgccgggat cgcggtggga gcggccgtaa cgctgaacat 240

cctcgtcgcc gggccgacga cgggcgggtc catgaacccg gtgaggacgc tggggccggc 300

cgtggcggcg gngaactacc ggcagctctg gatctacctg ctggccccga cgctgggcgc 360

gttggcgggg gccagcgtgt acacggcggt gaagctcagg gacgagaacg gtgagacgcc 420

gcgcacgcag cgcagctttc gccgctgacg acgcacac 458

<210> 36618
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E7

<400> 36618

aagaggtaca accccaagaa gctgacatat gagcagagga aggccagcct cattgaaagg 60

ctcaaccaac tcaactcctc cggtggtgct gatgacgacg atgaggacga cgagtaaagt 120

taattgccat cgaagtagtg ctatctcaat ccagcgatca gcaattgtgt actgtcttat 180

gcggggacct gtagtactgc aataggcatt tttgttttaa agttttgcga ggtgaacaaa 240

actgtttctg ttagtttcga gcttgagctc tcaatgttta ctctttacat tg 292

<210> 36619
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E8

<400> 36619

gtccaatgca cgagcacatg gatggtctgt ttgcatggtc tagtttttt ttgtgaacag 60

acaaatgaac tcacatgtac gcctccatac tgcagcagca gcagccgccg ccgccgtctc 120

ggagctcgag ctcctagtcc cccggggccc aggcggcggc gccatggacc agctccggcc 180

cgagccggcc gcgggcgcgc ggcacgagat cgagaagacg gcggcgccgg acgtgga 237

<210> 36620
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E9

<400> 36620

cccacgcgta cgcgcgctca gaagccgcat ccaatccaac agggcgcagg gagagaagag 60

gccaggtcag aagagagggg gccgggcaca ccaacgcggc gcagaa 106

<210> 36621
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F10

<400> 36621

gtttttcctc gtcctcgatc cagccccctg tcgcttccag ctccgatcga tctgatccct 60

ccccaccacc acgcccatgg cggaccaact caccgacgac cagatcgccg agttcaagga 120

ggccttcagc ctcttcgaca aggacgggga tggttgcatc acgaccaagg agctgggaac 180

tgtcatgcgt tcactggggc aaaaccctac agaggctgag ctccaggaca tgatcaatga 240

ggtcgatgcc gacggcaacg gcaccatcga ttttccagag tttctcaacc ttatggctcg 300

caagatgaag gacaccgact ctgaggaaga gctcaaggag gcctttcgtg tgtttgacaa 360

ggaccagaac ggcttcatct ctgccgccga gctccgccat gtcatgacaa atcttgggga 420

gaagctaact gatg 434

<210> 36622
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F11

<400> 36622

agccccggtc ccccggatca agagcgaaat gctctacggc gaggacgtac ctctcaaggc 60

cagggtgagc ggcgtgcccg cagtcgacct cgaggacggc gagatgaaga gctagctgct 120

gcggctgccg cagctgccgc tgattcgttc attcttcttg ttcttttgta actgtgcgcg 180

cgcgatcgct cgatccaaag ttgcttgtcc gtcagccctc 220

<210> 36623
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-F12

<400> 36623

cggaccgcgt gggccggact gcgtgaggca ccactgnnct cttataaccc atagtaccaa 60

agcgaaggta acgtcacgat ggcaaccttc caatgggtta gtctttcgtc ttgcatctgc 120

ccttagtttc tatcttctcc cttctccaag tgctcgtccc cttgtgccca cctcatgtgg 180

gtggctttgg ttcccaccca gttctatgac tcattcgtgc ccccaagggc gaaggacgaa 240

ttgtgccagt ccacttgtgt gcacagagcc ctgtggccca agggagaccc acggatggct 300

ggtcatactt nntagtcaga cctgcnnatt tccatgaaac tgctttgtca aagggcttgc 360

gat 363

<210> 36624
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F3

<400> 36624

aaaaaaaaaa aaaaaaataa aatcaaaatt tatataataa aaaaaaaaaa aaaagcaaag 60

tggacgtgat cataatgata taagacacta gaaagaatga actagatgat attacatgat 120

cttacaaata tatctcttcc aatctgatta acgcataaat agaaatgggc catcgttcgc 180

tgctattatc tgagtccgat gatgatccag ctgatgtagg cactgaaaaa cataacatat 240

ttactgttac tgaagatggc tctttaacac aaccggcata agtgcctcct atgcatgggc 300

aaaggatttc tgatcagttc cattgtcccg ttgaatcacg agagacatgt gaaactgctg 360

aatctttccg aaatccacct gaaagcaaca tg 392

<210> 36625
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-D9

<400> 36625

cccacgcgtc cgccgcggcg agttcaaatt tcacaatctt cttgtagcac accactgtct 60

tcgtccaact cggcggcgat gtctgggcgc ggcaagggcg gcaaggggct gggcaagggc 120

ggcgcgaaac gccaccgtaa ggttctccgc gacaacatcc agggtatcac gaagccggca 180

atccggaggc tggcgaggag gggcggcgtg aagcgtatct ccgggcttat ctacgaggaa 240

acccgcggcg tgctcaagat cttcctcgag aatgtcatcc gcgacgcggt cacctacacc 300

gagcacgctc gccgcaagac cgtcaccgcc atggatgttg tgtacgccct caagcgccag 360

ggccgcactc tgtacgggtt cggtggttga gcgcatctct tncctcgtc 409

<210> 36626
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-F4

<400> 36626

gcgtgaccat gctcttggcc caaaggatga ttttgattca gtgcccgttg ttgggtcagt 60

gatggatggt ttcaacgtat gcatctttgc atatgggcaa acaggaaccg ggaaaacttt 120

cacaatggaa ggggttccag aaaatagggg tgtaaattat agggctttgg aagaattgtt 180

cagaatctca gagaaaagaa gtgcatctgt tgcatacaca ttttccgtaa gcatcttgga 240

agtttacaat gaaaagatca gggatcttct tgatgagagc aatgatcaat caaaaaggtt 300

ggatattaag caaaatgctg atggaacaca agaagttcat ggtttggttg aggctccaat 360

ttataacata gatggtgtgt gggagaaact gaagtttggc gctcaaaata gatccgntgg 420

ctcaaccatt gctaatgaac tc 442

<210> 36627
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C4

<400> 36627

gaactgcatc catctattcc aggagcatgt catattgagc ctcatgcacc tgctctagag 60

gagcttcaac gacaccaagt ggcacgtgta ccgactgtgc gttctgaaag ctagcctgaa 120

cctagcgctc cagatcgaga tgatcaaact cgaggcgaag cacagaagta ctactatctt 180

cggactacaa cggactgaag tccggagaaa ctacctgagc ctatgacagt ttcggagagc 240

tctgatgaca taactgaatg agtcgaatct actagagcac aaggaccgaa gtgctagttt 300

aacagagtga ccaaactgtc aggacggact attcctgacg agttaaaaga tgcacgggaa 360

ttgccagaca aggtatcaga tcaacaacc 389

<210> 36628
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C5

<400> 36628

agaaccgaga tcctcataac ccttttcctt cctcccttct cccctctcgg atcgagtgct 60

tgagctccga ccaaatctcg cagcggctgc aattccgagc ccgaagagcg gatcaggcga 120

ggacgacgcc ttcgattctg atctgcggtc ggcgcgaccc agagagaacc ggagatgcag 180

cagggcgacg gcacggaggc gcaggtgacg tgggaggacc agcagaacat caaccgcttc 240

ggtcgcctca acaaccgcct ccacgagctc caggaagaga tcaagctcgc aaaggagacg 300

aatgagaacc ttgatgatgc tgggaatgaa ctcatcttgt ccgatgaaga cgttgtacgc 360

ttccaaattg gggaagtgtt tgctcacatg ccaagggatg acgtccagac taggctggag 420

cagatgaaag 430

<210> 36629
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C6

<400> 36629

ggccgagatc accaacagcg ccttttagct atcctccatg atggccaagt gcgatccccg 60

ccatggtaag tacatggcct gctgcctcat gtaccgtggt gatgtggtcc ccaaggatgt 120

gaatgctgct gtggccacca tcaagaccaa gcgcaccatc cagtttgtgg actggtgccc 180

aactggcttt aagtgcggca ttaactacca gcctccaagt gtggtgcctg gtggtgacct 240

ggccaaggtg cagcgcgctg tgtgcatgat ctccaactcc accagtgttg tggaggtgtt 300

ctcccgcatc gaccacaagt tcgacctcat gtacgccaag cgtgccttcg tgcactggta 360

tgtcggtgaa ggtatggaag aaggcgagtt ctctgaggcc cgtgaggatc ttgcagcgct 420

cgaaaaagac tactaggaag gtggtgctta atttga 456

<210> 36630
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-C8

<400> 36630

gtcggaacat tcgtccctca ctagctagtt cgtagcagaa tcattctgag aggctaccca 60

tcctgatgat gcatggttgt cttcaactcc ttccggtttc atttcatgga aatcagttgg 120

tagataagat cgagcaaact ttctcttgta tgtaatgttg tcatgggaaa aaaaaaagaa 180

aatacagtgt aaaggcacac tggcagacaa gccatagata tgaataggta tgtgtgttgt 240

tgaaggaatg tgctgtgatg cgcatggggg attggtgatg acaagcaggc cgttttgagt 300

ctccatatca cctatgcaga atcagctgta gaaaaaaagg tagcaaattg tggaagtcga 360

accaattgtt ttgcaaacat aaaanaagat gaatgtttgt tggcgagttc gttgcgagaa 420

aaa 423

<210> 36631
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C9

<400> 36631

cccacgcgtc cgcccacgcg tacgcccact cgtccgtttt ttttttttt ttattttgtg 60

gtttgatttt attgttatgg atttttatta atattttcga ggggactttc taaaagacac 120

aaccgaaatt aagaatgaat gcgaacgcaa aaatattaaa aaagggaacc aaaatgcaaa 180

taagatgacc gacgactaac aacatgggaa ctgggaaaac actagggata cccaactaaa 240

aagggttgaa aaagaaaaac ttttag 266

<210> 36632

<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-D1

<400> 36632

atctcctcgc atttcttccc atccgatctt cccttcgcaa ccaaaacccc aactcgcccc 60

gcatcgatgg cgcccaaggc cgagaagaaa cccgcggcga agaagccggc ggaggaggag 120

cccgcggccg agaaggcgcc cgccgggaag aagccgaagg cggagaagcg ggtccccgct 180

ggcaagtccg ctgccaagga aggcggcgag ggcaagaggg gcaagaagaa gggcaagaag 240

agcgtggaga cctacaagat ctacatcttc aaggtgctga agcaggtgca cccggacatt 300

ggcatctnct ncaaggccat gtccatcatg aactccttca ttaacgatat cttcgagaag 360

ctcgc 365

<210> 36633
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-D10

<400> 36633

cccacgcgtc cgcttgaatc ttgagcacat agtatgctcg ctcacaggac agtcacttgc 60

ctgggaagcc agatattatt gcagcctcat acaccgccct tccctactgc ttcctgagat 120

ttgagagctc gggcgccaga tctgaaacct cttgtgttgt gcctttggta gttcggtgta 180

gcattgagct agtagaggtg ctgttccagt tccaggatga gcaaggagga tgtcctcaag 240

gtgcagacat tgatgctgag agtgaacata cactgtgacg ggtgcgagaa gaaggtcaag 300

aagaccctnc acaagatcga cggtgtctac cagagcagca tcgacgcgga acagggcaag 360

gtgacggtgt ccggtttgct ggatccggac accatcatca ggaagctcaa caa 413

<210> 36634
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-D11

<400> 36634

cccacgcgtc cggtccgccc tccttgtgct ccgcttgcaa tggcgtccac cgccgtcaag 60

ctcatcgaca tcgcagtcaa cttcacagat ggcatgttca agggcatcta ccacggcaag 120

cagtgccacg tcgccgacat cccggccgta ctcgcgcgcg cgtgggctgc aggcgtcgac 180

cgcatcattg tcaccggagg ctccctgaaa gagtccagag aggcattgca gatcgccgag 240

accgacggga gactgttctg cactgtggga gtgcacccaa cgagatgcgg ggagttcgag 300

gagagtggag accccgaggg tcattttcag gcactgctgg ctctagcgaa ggaaggttta 360

gataaaggca aggtcgttgc ttgtggtgaa tgtgggttgg attatga 407

<210> 36635
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-D12

<400> 36635

cccacgcgtc cgcccacgcg tccgcccact cgtcctccca cgcgtacgca gaaaatggcg 60

tcacttctcc gccctctcgt gctcgtgctc ctgatcgcct cctgcgcagc gcagcagtca 120

ccgccggcgc agcccccgcc aacgccgaac gcgccaccgg ccaactcgcc gccccaggcg 180

cctacagccg gaaacccggc gccggcgccc caggcgccgg cggcaggcaa cccggcacct 240

gcgcccaccg gcactccacc tacggccccg accactccga ccccggcccc gaccacacct 300

nccccggctt ccacaacgcc gaccccggcg ccgacaacta cacctacgac ccccaccacg 360

ccg 363

<210> 36636
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-D2

<400> 36636

aagttcactt gcagctggtt atctggatgc ttcgacgctg gcggattatc tcgtgaagaa 60

gggagtccct ttcagaactt ctcacgagat agttggaagg tctgttgctc tatgcgtctc 120

caagaactgt cagctagctg agcttgaatt ggctgaccta aaatctgtcc atcctgtatt 180

tgaggatgac gtctatgaat acctgggggt tgaaaacgct gtaaacaagt tcatatccta 240

tggctctact ggttcagaac aagtgaaaaa gcagcttgag gattggcgca tccagctcgg 300

ggtgagctca taagggttgg catggtccaa gaaataagct cgcaaattag tgcttgcgat 360

ttttgaaggt gtatgttgac gtcgtgaact tttactgagc gtttgatcat acatgttcga 420

aactggaatg aatgatgtaa acatgttaga caccttga 458

<210> 36637
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-D3

<400> 36637

cccacgcgtc cgcggactcg tggggccttt atttataggg gaacttgaga tgctagagga 60

gctggacatc agtagcaacc agatacgagt gcttccagac tcttttgggc atctctcaaa 120

gctacgtgtg tttcatgctg atgaaactcc actggaagta ccgcccaaag aagttgtaaa 180

gctaggggct caggagctgg ttaattatat gaagaatatg gttgctgcaa gggaagtgag 240

ccagaatcaa acagataaga ggagcttctg gacctggctc cgctcactgt ttggttgtta 300

caaaaagaat caaggattgg gaccagttcc agcctagctg aaccatatcg tccgcatgta 360

ttgtcatgaa ttattcaggt tt 382

<210> 36638
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-D4

<400> 36638

cgcagctgga acagcttagt ggatggcatt agatatactt cgaaatgaac catcagatga 60

gaaatgtgac gtcttcagct atggggtcat attatgggag ctctgtacat tgctgcagcc 120

atgggaaggt atgaatccca tgcaggttgt tggagctgtt ggttttcagc aacgacggct 180

tgatattcct ggtggtgtgg atcctgctgt agcagagata ataaggagat gctggcagac 240

tgatccaagg atgcggccat cattttcaga gatcatggct actttgagac cattgttaaa 300

aaacatgcct gccaaccaac ctaccaggaa gcgggcacag canacagatg attaagaata 360

tattggtcag tatcagctga agacacaggc catagagaga ctgc 404

<210> 36639
<211> 367
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-D5

<400> 36639

cccacgcgtc cgcttaaggg ttcctgtact agaaaatctc gcccgttacg ggaacagcag 60

ctcaaatggg agtccaagca gtgagggtca aggatccttg ttggatcagt acaatggtgt 120

acatgatgct tcccatggct tgcatcggaa gcgaaaaaag caccttgatg gtgccggcga 180

tgatgatcat gcagatgcct atagtaacaa aatgatggag gatcactacc gtgcgatgct 240

cagtgaacat gtccagaagt accgaaggtc aaagtttaag gaaggtgctt ttatttccga 300

tccttctcag gtggcaatcc cccanattaa acacaaaaac ggtgggtaaa aagttatgaa 360

gcacatt 367

<210> 36640
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-D7

<400> 36640

cgctcggatc ccttcttcct ccatttcact ccaccgtcgc ctccgcctgc aaatccattg 60

ctagactcga gctgtagctg cgagcgagct cagcttgggg ctcaggcctg tagggtgata 120

gccttactgc tcctggtgct catcgcctag gaccttggtc tgtctgttta gggctgtcgc 180

ggctgcagga gccgatgatc gtcggatgca gccgatgctg ctagcgtacg catatagtga 240

ggactgaacg gctcgctggg cacgcgatct gatgagtgga tgctacagcg attgacgtag 300

acgcactatc catcatgcag ggcgccatgc ttcggaacct cactgacaag ctattctaga 360

agaggaataa cgcccagctc gagattgagg ggattgttaa gcaacttgca atggctgaag 420

aacattag 428

<210> 36641
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-D8

<400> 36641

ctcatgcgtc atctcctgcc gaccctggct atcccaaact ctagtccagc cagatgtacg 60

gcgactccgg cgagagcacg ggatcagatc cgccgtgatg gcgttgcgcc gcatattatc 120

cacagcggtg cgccgccgct cgggcatcgc cgcggcagca tacgggaacg cgcgcgaggg 180

ctccacggac gtcgccgcgg cgcccggcgt gctagccctc gactcgaccc cggtgcgcac 240

tcccgggatg ccgtacgatc gcatcgacga atccgttaac gccaggctcc atcggcttga 300

gcacccagac ccgcgctttc tacgctatgc aagccccgtt ccgtcccacg ccgaccacac 360

ggccatnctt gcagcgccgg agacctcggt caccacgcta gccaacggcc tgcgcgtggc 420

cactgagtc 429

<210> 36642
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C3

<400> 36642

cccaaagttg tgcaccgtga catcaaattt agctttattt tgattgatga tgagttcgag 60

tccaaagtat cagatttcgg tttagccaag cttcttggcg ctggaaagag tcatgtcacc 120

actagagtta tgggtacctt tgggtatgtg gcaccagagt atgcaaatac tggactcttg 180

aacgaaaaga gtgacattta cagctttgga gtcgttctcc ttgaagcaat taccggaagg 240

gatcctgttg actatggacg cccaccaaac gaggtgaatc tagttgactg gctaaaaatg 300

atggttgcca gcaggcggtc agaagaagta gtggatccca ccatagagac acgaccttcg 360

acgagagctc taaagcgtgc acttttgaca gctctgaggt gtgtg 405

<210> 36643
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B1

<400> 36643

acgtgagctg acgctgtcac tcgcgatagt tgctagagag agagagagag agagagggcc 60

cgagagccga ggacgagtgc agtctggctg gcgtgatgct gcttcggagc gcgtcctcgc 120

cgctgctcaa ctgcgggcgc gcgccggctg ccacggcgat cgtcgagcac ctggccgtgg 180

ttacgccgat gttatcaccg gcagtggctg cgcctaggca agggccggtg ctgcgccgcg 240

ccatgtacga cggggaccat atcgcgccga tcgtgcccaa gaaggacgat tgacacggca 300

tggcgccga 309

<210> 36644
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B10

<400> 36644

cccacgcgtc cgcccacgcg tgcggccaat cccttattgc gacctgcgtt ccgccaaaac 60

cctacggcca tggacggcgg acgcagcggt gtagggcgag gaggagttga ggcaagtgtc 120

atggtgggcg gaggagttga gccgatcagc ggcgctagag actgcagaca cttggagact 180

cgcagataga cgctgaagct tgagcacaag ctgtactact gcaatctgaa cgataactcc 240

aggcggaggt acctcaagat atgcgcatag actctctaca cgcgctctac aatcattgct 300

ctcggcaact 310

<210> 36645
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B11

<400> 36645

ggaacagagg tgcactcgcc agttgttctt tcaaatgcca ctccatacaa aacatttgtg 60

gacctagtac cttctagtgt tcttccggag gacttcctct gtgcaattaa ggcagcagat 120

tacagctctg caacaacaaa gattaatgtg gctgtcgaca gactgccaca gttccagtgt 180

tgcaacacca atcttgaagg tggtccagag cacatgggca caatacacat tgggtccgaa 240

agcatggagg aaattgacgt tgcatacagg gaagcagcag acggcatctc gtccaaaaga 300

cctgttatag aaatgacaat tccttctgtt ttggataaga ccatctctcc gccagaaagc 360

ctttgctgag cgatgcttct ctttgattga tgagt 395

<210> 36646
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-B12

<400> 36646

ccaaaccttg gcatgaatga tgtttatctt gcttatcttc cattggctca tgtctttgaa 60

ctagcagggg agactgtcat gttagcttct ggcagtgcca ttggatatgg ttcagcattg 120

actatgactg atacatcgaa caagattaag aagggaacaa aaggagatgt ttctgtactg 180

aatcctactc ttatgatttc agttcctgca attttggatc gtatcagaga tgcagtattt 240

aagaaagttg gtgagaaggg tggcctgaca aaaaagctgt ttgattnttc atataagcga 300

aatattgcag caattgaagg gagttggttt ggatcttggg caccagagag gatgttatgg 360

gatcacattt attataaacc aatacnggca atg 393

<210> 36647
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B2

<400> 36647

cccgacccga ccgacgcgac cgacttgagc ggacgcggta acacgcgaga ttagattacc 60

agacagagag agagagagag ggcgagagcc aaagacaagc ggggggaggc aagcgagatg 120

ctacatcgga gcgcgaccac accgacgcgc aacagcaggc gcacaccaga cagacgagaa 180

aacagtcgag caccacaaag aagaaacgcc gcagaaaaca ccaacagagg cgacgccaag 240

gcacggaccg ggacaggacc aagccaagcc caaaggagac caaaa 285

<210> 36648
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B3

<400> 36648

cccacgcgtc cggggacgac atggagaata tctttcatca caccttctac aacgagctcc 60

gtgtggctcc cgaggaacac cccgtcctcc tcactgaggc gcccctgaac ccaaaggcta 120

accgtgagaa gatgacccag atcatgttcg agaccttcaa caccccgct atgtacgtcg 180

ccatccaggc cgtcctgtct ctgtatgcca gtggtcgtac cacaggtatc gtgctcgact 240

cgggagatgg tgtcagccac actgtcccca tctacgaggg atacgccctc ccccacgcca 300

tccttcgtct cgacctggct ggccgcgacc tcaccgacta cctcatgaag atcctgactg 360

aacgc 365

<210> 36649
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B4

<400> 36649

gtaacttgtt taaggataat aaggaccctt tgcttctttc cctttgactg aagtgcagcc 60

cggcacaccg gttgcttgtt gaagaatgct tttttattat tattgtagtt aagagtccag 120

acgtcgttat taccacttat cgtcgtattg gaaaaaatgt ctttttctt 169

<210> 36650
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-B5

<400> 36650

cccacgcgtc cgggaagccg aggatgcatt ttcttcagca agttatgatg tctctaatga 60

aggaaggatg gcggtcataa caaccactga tgcctctggc agtccattgg ccatgagaga 120

tttcgacggc ctagccgact ccatgactat gaggagcagc aaatcagaaa cccttcgaag 180

tttgcaatcc tcctacgagc aagaatcccc tagtgtaagc cggcgccgcc gtgttcgctt 240

tgaggtacca gaggaggatg gcatgggccg gcaagtgaaa gaagaactca tggcgctggt 300

ggaagcgaaa catgctgggg tggcatacat catgggccat tcttatatca aagctaggaa 360

gagctcaagt ttcctgaaga agttgctatt gatgtggcta ctctttanct cgaagact 418

<210> 36651
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B6

<400> 36651

gcggacgcgt gggttactgc aaacttggtt tgcatccatc ccattagcat tggatgaggc 60

tgttcgcagt ggcaaggtga agactggtga tattattgcc gcatcatgtt ttggcgctgg 120

acttacctgg ggttcagcta ttgtcaaatg gggctaatta ttctacgtga gccataacaa 180

catcaatgag atcttcatag gccttgggga cctacatcta tttggtcttc ccccccttca 240

cccatttttct gtgcaacatt tttctatcgc atgtgtcggt cttacttgca catgaaaatc 300

tagtgccatt ttaccgtatt tctttggctt catacacaac tgatagtaga ttggtggatg 360

aacatgggtg a 371

<210> 36652
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-B7

<400> 36652

caatttagtt cccaggtacc acaatttagt tcacaagcta gttcacaagc tcacatttga 60

atggagcaat acacaggtag cagtttgaca agctattaca caagctcaca tttctgggag 120

caatacacag gtagcagttt cacaagctat cacacaagct cacatttctg ggagcaaaaa 180

acaggtggcg tagtagcagt cgtgtgttca tcttcatttg cagcaacgac aagttcacgg 240

cttggtgctt catcttcatt tccagctaca acaacgacaa gccacctgct ttggcgcgga 300

ctagggttgt ggtcgcagcg ccgncgtcac ctgctttggc gcgggngccgc gagcagcaag 360

ggagaagacg cggagtttgg agag 384

<210> 36653
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B8

<400> 36653

cccacgcgtc cgccgtcgac ggcgttccct tcgacaccta cctcactagg ttcgtgtggg 60

atgagggcaa gtaccccaca atgtcccctc tcaaggagat cgtcggcagc atacagtcac 120

aggttgccaa gatcgaggat gacatgaagg ttcgagcatc agaatataat aatgtaagga 180

gccagcttag tgcgatcaac aggaagcaaa gtgggagctt agcggttcgt gatctttcca 240

atctggtaaa accggaggat atgatcacct cggaacatct cgtgacactt cttgcaattg 300

ttcccaagta ctcccaaaaa gactggttgt caagctatga gaaaattgac acattcgtgg 360

tacctaggtc ctctaaaaag ctctatgaag acaatgaata tgctctctac actgtaacac 420

tgtttgctaa ggttgttgac aatttt 446

<210> 36654
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B9

<400> 36654

gccctgatca catcatcctg cttgtctctt tccaatctag ctccatctct ctttcatcta 60

ctcttccatc gatcgatcca tcgtactgcg tgaggatggg gaggggaaag attgagatca 120

agaggatcga gaacaccacc agccgccagg tgaccttctg caagcgcagg aatgggctgc 180

tgaagaaggc ctacgagctc tccatcctct gcgacgctga gatcgctttg atcgtcttct 240

ctacccgagg ccgcctatat gaatattcca gtaacagcgt aaggtcgacg atcgagaggt 300

acaagaaagc ctctgccagc acttcaggaa cagctccagt gacagatgtc aactctcttc 360

aatactttca gcaagaagcg ggcaaactgc gccagcagat acaaaccttg cagaattcaa 420

caggcacctg atgg 434

<210> 36655
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C1

<400> 36655

gacgccgctc ccttgtcttt ccaacgtctt atctcgatcc gcccgtcgcg gcccccagat 60

ctctctctgc tttagcgcaa ctcgcgctcc ggtgcgcgtc cactcatcgc gatcgcctgc 120

tcgaccgatc gatagctcaa gcacgacgag aggagagcta cctatcgcag ttgcgcgtct 180

tccttcttgc tcactctcag tctcttgctc gctcgccagc tctttcccac ttgcatggat 240

ccctccgggc ctggcccgtc gtcggtcgtg ggggcaggag gcggcgaggc accggccgtg 300

gcgccgcagc ggccggcgca gctgagtagg tacgagtcgc agaagcggag ggactggaac 360

acgttcctgc agtacctg 378

<210> 36656
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C10

<400> 36656

ttcccgtcgc cacgcgtccg attaccgact taatgaacgc tgactcacct ctgtcctata 60

ctggaaccag agcacggtta cgtggacacg gagcgcgaca aagacgatcg tgagcaccct 120

cggtgagacg ggtctcactg agatacctgg gtcagaacgc gcaaaagtac acggggcgat 180

ggttctgtcc actgacctca ccgaat 206

<210> 36657
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-C11

<400> 36657

aagagagctg atgctgagaa ggctcttctt cacatggatg gtggtcaaat tgatggaaat 60

attgttaagt tgagattcac tcttcaacca cgccaaaggg ctgcatcacc tgtaaaagct 120

ccgccccctc ctccaaaaag agatgctctt cagattgaaa aaggtgttag cagtgctgaa 180

aaggatgctc agcagcgtcc taaggaatca tctccacgaa ggaaaccagc ttcacctcta 240

cggaaacgat ctccaaatcg aagggctgaa tcacccaggc gtccacctga cccatcacct 300

aggcgccgtc ctgattctcc gcctatacgt cgccgaccag atccttctnc tgtcangcgt 360

ggtgacacac c 371

<210> 36658
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C12

<400> 36658

gttatagatc gcgagcggcc ggcccttctt tgttttatgg aatgtagcag cacatcagag 60

cgaagggagc taaatgatgt gattgcagtg ttcgccagca tggattgccc tgccacaatc 120

cataaggggc tgcaatacct actgagctac aactggaccc tggtcttaga ggggattcat 180

tccttgcaaa gctagcgcaa ctagagaggt ctcccattac ttccgacgca ttacaccgtt 240

cgaggatggt gaagaagaag accatagcct aaacacgggt gatgaagacg acgaccacac 300

ctgtagcatt agctacaact gtgactccga tgcaacattc cagccatgcc atcaccggtc 360

ctgctatggc tgcataagca ggcatctcct gaacaac 397

<210> 36659
<211> 420
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C2

<400> 36659

cccacgcgtc cgatcacatg ctctcccact atactcaagc tagtgcgagc atagcaatgg 60

ggttctcccg gaagagtgga gttgcagcaa tacgggtctg gtggctcctc ctgctcgcct 120

gcgtgctgtt gcctttggcg gcggcatttg gccggcacgc cgatgccggc aacgacatgt 180

gcgacatcaa gtgccagcat cacatcgacc cggtcaggag gcatcagagc gtggatgagt 240

gccataggcg tgagcaccat gaccctagca gagagttttg cgagatgaag agccagcacc 300

accaggaccc tgcaaggaaa gagatctgcg tgcagcaacg catgagctat ggtctcgagc 360

accgtgcgag tgccagtgtt gttgatgacg gtgaaaagcg cttgcatggc tgggaaacga 420

<210> 36660
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-A9

<400> 36660

gcccacgcgt cgccaccgtc gccattttcc tgacccgggc caggccatat gggttggaaa 60

ggcagttggt aaccttccct tggtcaatgg caagggccaa ttagagaaac acaatgactt 120

cttccttaac aagcctcttg gtgggggtcc tgccggaagg gtgaagcgga agaaccagaa 180

gaaggcctca tggggcggcg acgctgagga ggacgaggag tagagggcca cgtagggatt 240

ctgcgaccgc aattggttga aatgtgaggt ggacacttt 279

<210> 36661
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H2

<400> 36661

ctacgcgtag acggtctcct gtgcagattc aggtgttaac cttatggact gctttcatgc 60

gacggcatac ttctaatctc gctggatcta aacgcaatat agagacctat attctacaac 120

ttcgtatctg ataaaaacct ttcgttaatc aatttaagga cttggcataa gatcctccaa 180

tatcatgcat gacaagtact 200

<210> 36662
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H3

<400> 36662

ctcgatccat ctcactctcc gctggtcgct cactcttgca gctccaccct tcactcagtg 60

gtagtctctt attagctcta ggctctagct agccgcgcca ctccttcgtg tagccatcag 120

ccttctcatc gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcggccg 180

aggaagcgcc cgtggtggag accccgccgc cggccgtcgt gcccgaggag tctgcccccg 240

ccgaggccga ggccgaggcc gaggctgctg ctcctgctga tcccgaggag cttcccgcgg 300

ccgagcagca ggtagccgcc gaggcggagg ccgcggctcc tgctggtgcc gaggagcccg 360

tcgcgggcga accggccgcc taggcggaag ctgctgctcc tgctggcccg aggagactcc 420

tgcggtcgag c 431

<210> 36663
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-H4

<400> 36663

acaccttgca gctccatggt ccctggcttt agaattccaa tgtggggaga ggaattcaat 60

ttttgtgttg atagtcttcc tgtaaagata aatgtcacga tatatgactg ggacattgta 120

tggaaaagca caatccttgg ctcttttact gttactgttg aatctgaggt accgagtgga 180

ccaatttggc atacacttga cagcacatca cgccaggtgt gtcttcatat taaagtaatc 240

aaggttcatg aaagttactc cagggcaata aatagctcag ctgangctgg tgctcgtaga 300

aggatttcct tggatatgca aggtcctact gtaggtcatc aaaagc 346

<210> 36664
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-H5

<400> 36664

cccacgcgtc cggcagagca caaaagaaat ccatccgtct cattgcttcc gcttgttcac 60

caaacaaaac cgaagccaca ctccaccgct ctcctcccca atcagctatg ctcgcccacc 120

gcttcctcct cctcgtcgtc gtcgccgcgg ctgcggcgag cggcatcgcc tccgctaagc 180

cgacggcgta cgaagccctc gccgactacg acttcccccc ggggatcctt cccaagggcg 240

tggtcgccta cacggtcgac aacgccacgg gcgccttcac ggccacgctc gatgcctccg 300

cgtccggcgc gggatcctcc atctgcgagt tctccatcga gggctcctac tcgctacgct 360

accagaccaa gatcaccggc aagatctncc ccgaccacct taccgacctn cagggtgtct 420

ccgtcaaagt cctcttcttt tggctcaaca 450

<210> 36665
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H6

<400> 36665

cccacgcgtc cgcccacgcg tcctacggtg cgggcatcgg ccccggtgtc tacgacatgc 60

actcccccag gatcccgtcg gctgaggaga tcgccgaccg catcgacaag atgctggcgg 120

tgctggacac caacatcctc tgggtgaacc ccgactgcgg cctcaagacc cgcaagtaca 180

cggaggtcaa gcccgccctg accaacatgg actccgccgc taagctcatc cgcacccagc 240

tcgccagcgc caagtgagca ccgtttttt gccttttcg tttccgagga gggcgtcgtc 300

gatgccaatt gggttccaat aaacagggct gtgcccgccg ttctgttgta ctccgactgt 360

ggctaggtta gtaagtttct tgatctcgcc cccacgcggt acctggttta ctactctctg 420

tttgg 425

<210> 36666

<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H8

<400> 36666

ccaaatttga agctgccggc atatggtatt agcaccgcct tatcgatgac atggtagcat 60

acgcacttaa gagtgaagga gggtatgtct gggcttgcaa gaattatgat ggagatgtgc 120

agagcgattt cttagctcaa ggttttggct cattgggttt gatgacttcg gtactggtgt 180

gccctgatgg aaagacgatc gaagctgaag ctgcccatgg tactgttacc cgtcattacc 240

gtgttcacca gaaaggaggt gaaaccagta cgaacagtat tgcctcaatc tttgcgtgga 300

caagaggact agcacacagg gcaaagcttg atgacaatgc tagactactt gacttcaccc 360

agaagcttga ggctgcctgc gttggagccg tcgagtctgg gaagatgacc aaggaccttg 420

cccttctcgt tcacggatct ttaaatatca cg 452

<210> 36667
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-A1

<400> 36667

gatctccatc tccatccgct agctagctat ctaggcaaga cagtcgagag tcgacaccat 60

ggccatggcg acgcaggggc aggccgacca gcagcagcag cacgggcggt ctgagcccac 120

caccagcgtc gccgccaacc gctgggggcc ctactccggc gccggcgact tcgccagcaa 180

catggccgtc atcctggccg ccctgctggc cgcgctcgcg ctcggcctgg cgctcaacgc 240

cgncgtgcgc tacctgctcc gncgcagccg ccgcgccggc tctgttggtg gacagggcaa 300

cggcagcggc gtgctgatgc cgtcggacga cccggctgag aagccctctg tggaggtgga 360

gct 363

<210> 36668
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-A10

<400> 36668

cccacgcgtc cgcggacgcg tggggtgctc ccctgcagat ctatcagcat ctagaacatg 60

atgatgacac tggacccggg tctattctgt gtgttggaag tgagtggcat cgctatccat 120

catcgttctt cataccctct tatatcagtg aagtccggtg gatagatgat ggcttccgtg 180

ggttacttcc atttcccttc aacgagacac tgggtgggac cactgcagct ccgtcctact 240

tcaataacaa gaacaaggcg gctgaagggc aatatctgaa agacattgga gcatgtaact 300

tactggtgga acttgatcta agacggcctt acccctcgcg cgggagtgac tngtcgacat 360

gggaggcatt ggccgcactg ccgttcctgg acagagagct nntccctgca tatatcggtc 420

cttcttatac catacc 436

<210> 36669
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-A11

<400> 36669

aaaaaacata caaaatttcg aaaaaaatta taattttaaa tcaaaaaaaa aaaaaaaggg 60

aa 62

<210> 36670
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-A12

<400> 36670

ccagtcgctg cagaagagtc cacagcgagt tncatatccg gatttcgccc tgctgtgcgt 60

gtactgttcc tccttttcgg gctagtttgg agccacaaaa ctagagcaga ttggaggggc 120

caaaatacac ttcttattca aaatttgaat aataagtgga tttttgtttc tccaatccct 180

tccggtttta tggctcccaa actagtccat ctagtgcgtc ggttttacat gtggttcaag 240

tggggtactg tgtgctaaca gatacaacaa cgaggcttgt ctgtatgtct gctgacacta 300

gagaccaatg catataatga ttctaattta ggccccgttt gatgattcta atttaggctc 360

anaa 364

<210> 36671
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-A2

<400> 36671

cccacgcgtc cgcccacgcg tccgctggtt ccatcccacc ccatcaggct cgggcttgct 60

ctcgacttct cagtgttcta ctacgagatc ctcaactccc ctgaccgtgc ttgcaacctt 120

gcaaagcagg cctttgatga ggcaatctcc gagctagaca gcctgggaga ggagtcctac 180

aaggacagca ctctgatcat gcagctcctg cgtgacaact tgaccttatg gacttccgac 240

accaacgagg acggcgggga tgagatcaag gaagcagctg ctgcccccaa agaatccgcc 300

cccgagggcc agtaagacgg atccgatcta ccgacctgat gcgtgtctgc tgatgtcgga 360

gagtttacca ggactgtgcc gttcttgatt tctgatagct tatcttctag tacacctcgt 420

gttggtctct tcgtcacggc gccggtgcgc gtgc 454

<210> 36672
<211> 219
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-A3

<400> 36672

cggacgcgtg gggccgtgct gcccagaata ncatctctca cccatggccg cggccaccgc 60

cgggcgcccc atgcagagcc gaacccccaa ctagcatcag cgaccgccca gcagacagca 120

gaggaggagc gcggcaaatc ctcggcgccc caccaccact cacatcacaa ggcggactac 180

acgcaccaca ccatacgccg agccgaggag cgcccgcac 219

<210> 36673

<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-A4

<400> 36673

cccacgcgtc cgcccactcg tccgcccact cgttcgccca cgcgtccgct atgacattgt 60

gaccttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaagggg ggcctataaa aaaaaccaaa tttaactaac acggcaaagg 240

aataaaaaaa ttttaaaaag gggaaaccaa aataaaataa aagggacacg tttaaaaaaa 300

gattaaaatt ggaaaaacct gtggaaaaac aaaaaaaacc cccatgaaaa aaaattccat 360

atagaaaggg agggaaaaag gaaa 384

<210> 36674
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-A5

<400> 36674

ggtgagaaca aatagctgcg ggtctgggat ttgatttgtt ggatgatatc ttgttggggg 60

ataaatctga atgaccaatg gatattggca ttacaataga cacactaaaa atatatgctg 120

aaagtcagaa acaaaataca atagagttgt gaagaaggta tttttgacaa ctatgcatcg 180

tacctatctt ggtggcgaaa tcaacttcac tgatggatct attaacccaa aatctacagt 240

gggaactcct gcatacattg ctcatgaggt tcttctggag aaggaataca atggaaaggt 300

tgctgatgtt aggtcatg 318

<210> 36675
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-A6

<400> 36675

cccacgcgtc cgcccacgcg tccgttcact cgtccgccca cgcgtccgcc cacgcgtccg 60

agcacagcac caccgcgcta gtcatccccc tcgtcgtccc ccagcacaca cacacccttc 120

ctccgctgcc tcagctatgg cagcgccgag ctggatccgg ctccggcagt cgcgtgcaac 180

cctcctcatc ctgctgctca ttgccctcaa catctccctt tcctccgccg ccaacttcga 240

gggcttcgac tccgacgacc ttccctccgc ggccggtggc ctcgatgctg acgatgacga 300

ggaaggtctc gacggcgtcg acctcccgcc ccctccggcc atctccctct ccacctctgc 360

gccatcacct nccgtcacga cgacatccgc gccgaaccct aaccccgcta cgcgtacgcc 420

tcgg 424

<210> 36676
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-A7

<400> 36676

ccccaattcc tccttcggat ctcgtatttt tcgcagcgca ggtgtgaagg aaggggggacg 60

cggaggaaga tggggctcgc gttcgggaag ctcttcagcc ggctcttcgc caagaaggag 120

atgcggatcc tcatggtcgg cctcgacgcc gccggtaaaa ccaccatcct ctacaagctc 180

aagctcggcg agatcgtcac caccatcccc accatcggtt tcaatgttga aactgttgag 240

tacaagaaca ttagcttcac tgtctgggat gtcgggggtc aggacaagat cagacctctt 300

tggaggcatt acttccagaa cacccagggt cttatttttg gtgtggacag caatgaccgt 360

gaccgtgttg ttgaagccag agatgagctc cacaggatgc tgaacgagga tgagctacgt 420

gatg 424

<210> 36677
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H12

<400> 36677

ccatcctcca ttatccttta tttcaattct ttcatcatcg tcgtgtgtaa attaaataaa 60

taaagctctt gtgcccatat taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga gagagca 227

<210> 36678
<211> 181
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-A8

<400> 36678

cattttggtg ctatggttct gactcaatgt tatgtgactt gtgatgtggt tttgtcgtgt 60

ggtgtgtgtt ttgctgccat gttcctccaa atgacccggg ggttctgtcg tgttagggat 120

gatatgcttg gtgtacagca tcaaaatgtt ttaaatctta aaagtgatgt tgcctggctt 180

t 181

<210> 36679
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-F5

<400> 36679

cccacgcgtc cgcccacgcg tccgcccact cgtccggaac tctagaagaa atcctaagag 60

agaagccact aacgactaat gaacatcaat ggagatctct agttggaatt tggtgccaag 120

agcaacataa gaaattatgt tccacaaact ctcgttgtgc aaaagaacag aagactgcac 180

acacatgtgg gaggaaaagc cttgctagat taaaaaaaga gatggaaaca agaactaaac 240

gaaaggttca taggatagaa ctatgggagg cagctcataa aaagaagaat ggtagataca 300

caacagaaaa ggcagagaca ctgatggctg catcttatga ggaatttaaa aaaggcgagg 360

gaacaacgat ggtaatcgtc tttcatctaa agattacaat gaaatgttca atgatattgt 420

tgccaaggga tttcaaagca cgtgggtact atgatgataa gtactg 466

<210> 36680
<211> 460

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-F6

<400> 36680

cccacgcgtc cgcggacgcg tgggtgctac ggcggcggcg gcggcacagc aggggaagaa 60

cgtacacccg cagtcgaaag aggacggcga gacagctctc ttcctatcca cattctatat 120

aatctatggc taatcaggta gagattagag tgattgagag agcggggaag gaagttttgt 180

acagagaaga gaaagaggta gttgatggga agggtttgat gtgattgccc tttcttttct 240

ctttgcttcc tggacacaac agccgccgcc acttcctgcc atcctttcgt cgttgattcg 300

gtgttcttgg atcggatgcc ttcatctgcc tagatcggag ctagagcaag gtgcgtggtg 360

taaatcccga gaggaggaag aggggaaggg gtccaggccg gttggtcttg ccgcgtacgg 420

gtcttccaag aacccgcggc gggggatgga tctctacgat 460

<210> 36681
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-F7

<400> 36681

cccacgcgtc cgcccacgcg tccgcccact cgtccgctct attcccagat cgagagggta 60

atcacggagg cggcaaagca gtcccgggaa ggctggggtt cgactggaga ttggaccgaa 120

gtcgagggat catgggtgtt gagaccgaag tccttggagc catcatttgt tgtccacttt 180

gttggaggaa tttttgtcgg agccgctccc cagatcacat accgcttctt cctcgagtgt 240

ctcgcgaaca ggggagcttt ggtgattgct acgccttatg cgagcggctt tgaccatttc 300

ttcattgcag atgaagttca atttaagttt gacaggtgtt tgagaaactt ggatgagcct 360

gtaaatgatc tcccaacgtt tggtgttgga cattcattgg gatctgttat ccacatgttg 420

attggatcaa gatatgctgt gcaacgaagt ggaaatgt 458

<210> 36682
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-F8

<400> 36682

cccacgcgtc cgcgctcgcg gactgccatt cgacccaaca cgcactggac ctcgcttgcg 60

atgatgaatc tattcactcg gtgaagagtg actgctcctg tgcaactaca gcctctttat 120

ctaccatgta agactttacc ttacgcagtt ctgcacttgt aaacggacgc ttaaccacac 180

tgcagacctg gtcctgctca tcaccatatg tgtcactggc aggcaaccat catgagtcct 240

cctcatcgtc catattctgg tcgactttat ta 272

<210> 36683
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-F9

<400> 36683

aacgcattaa ggcagttggc aagcatagca tcattggagc aagcggagag ttcagtgact 60

gccaggagat tttgcgctat ttggatgaac taactctgtc tgatcatatg tgggatgatg 120

gaaactcgct gggccccaaa gagatccaca gctatttgac aagagtgatg tacaaccggc 180

gcaacaagtt tgatcctctc tggaactcac ttgtacttgg tggggtgaaa aagggtccaa 240

agggtgatga gaagtatctt gggatggtta acatgattgg tacccacttc gaggaaaacc 300

atgtcgctac tggatttgga aatcatatgg caatcccgat actccgtgct gaatggcncg 360

atgatatgac ttt 373

<210> 36684
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G1

<400> 36684

gtgtcttttg atttaccttc acctgaattc gagtctcgtg atactaccat tctggggtgc 60

ggtaatcaac ctgtatgtgg atgggaaggt tgtaagtttt aaatcttgga ccggcagagg 120

aacaatgtgg gacccatata taagattctc aagtctggtt acttaggatt ggttaatgaa 180

aacctatttt aatgaggctg gtacaaagca gtggtctgtg aaggaaagaa gcagtgcgat 240

atgagaatac tcctgctgag cggaatcatg ctgatatatt gagacgctct ttgatttgag 300

atttggaaag ccacttcgag ctggcactac atcttaagct 340

<210> 36685
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G10

<400> 36685

acccacgcgt tcggtttcca cagtatggct cccgtttggc tacaccattg ctcatactca 60

atggggcctg cgatacgtgg cagggcacga gcgcgctatc acctagaaca gctgagccga 120

agaagactag cccccaatgc aagcttgaca tcaagatctg ctccgccatc caactcacag 180

ccagccaaat tctcaggaca tatgttctga aagcacaccg tataactcat gctcaactca 240

tgctcatcaa ctcatgcaac gctcactgcg aattacgatc ta 282

<210> 36686
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G11

<400> 36686

ctcaaggtcg aagtcgacag actggctgct tagcaggaac ctgaactcca aaaccgcaat 60

gtgggtgatg atggataccg gctgtggcag caggtcgatt gggaaggatt tgggataggg 120

agttccatgt tgccatcaga accttcagct gctgcgcaag tgccatcaag ggaagccgag 180

cctgaaccgc acctggaagt ggagcaaagc gtgtctccag ccccaagtgc agcaacctca 240

tacgatgttg ctgttccaca ctggttccag cgccatgcgg acccttctga gctcatgggg 300

ttcgcttccc gtggcctgat caaggccccg tttgtttccg cttttgagcg gcttctggcg 360

gccataatct gcccgggtca tccaaacgcg c 391

<210> 36687

<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G2

<400> 36687

cggacgcgtg ggcggacgcg tgggttggtt agatcaccac caaggccaat gttgactacg 60

ataagattgt cagggagacc tgtcgctaca ttggttttgt gtcaaacgat gttgggcttg 120

acgccgacca ctgcaaggtg ctcgtgaaca ttgagcagca gtcccctgat attgctcaag 180

gtgtgcatgg ccacttcacc aatcgccccg atgagattgg atctggtgac cagtgacaca 240

tgttcgggta tgcgaccgat gagacccctg agttgatgcc cctcagccat gtccttgcca 300

ccaagctagg tgctcgtctc accgatgtcc gcaagaacgg aacctgcctc tggctcatgc 360

ctgatgggaa gacccatgtg acagt 385

<210> 36688
<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-G3

<400> 36688

ggaagactgg ctagatactg ccaaggcaat tacaataatc aaccagtggg ttaccaatgt 60

tcagaacgag tacagagcga ctccacatga tctgctgcgg ctcaacagaa atgtaagaag 120

ccacatgcat cgctacagcg acggtgacgg cattgaggaa gttctgtatt gtgaatggcc 180

cgagctgctc atggtcatgc agaagatgtt gcacttggaa ggcgagctcg aaggcactga 240

cattcagaac aagtttggct aggcgtccta cttaagctac tgttcttcga tcgagttcag 300

gggccgaaag tttatgctgg tggagtgatg gtcgatgtaa gtttgtcgct ctcatcataa 360

aggtaaagct ggatcagctn tataaaatgt atgctaaaat ggtaagtaaa ctntaaacca 420

ttttctctga gaaggtctct tattaatata aaggctggag tctgtg 466

<210> 36689
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G4

<400> 36689

cgccggcaag gttgctgtgg tctgcggatt cggtgatgtc ggcaagggtt gtgctgctgc 60

cctcaagcag gctggtgccc gtgtcattgt gaccgagatc gaccccatct gtgccctcca 120

ggctctgatg gagggtcttc aggtccttcc cttggaggac gttgtctctg aagctgacat 180

cttcgtgacc accactggca acaaggatat catcatggat gaccacatga ggaagatgaa 240

gaacaatgcc attgtctgca acattggcca ctttgacaat gaaattgata tgctcggcct 300

tgagacctac cctggcgtca agcgcattac catcaagccc cagactgact cgctgggtga 360

tccccgagac caacactggc atcattgtcc ttgctgaggg gtcgctgaag aaccttgcgt 420

gtgctac 427

<210> 36690
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G5

<400> 36690

cccacgcgtc cgcccacgcg tccgcccact cgttcgccca cgcgttcgcc cacgcgtccg 60

cggacgcgtg ggcaaaacag tacattgaga accactacaa gacccagatg aagtccctgc 120

aagataggaa agagaggcgc tggatgttgg agagaaaatt acaagatgcc gaagttcctg 180

tagaagagca aaataacatt cttaagcatt tggagaaaaa agagactgaa tatatgcgct 240

tgcagagaca caagatggga gttgaagatt ttgaactttt gactattatt gggagaagtg 300

cattcggaga ggtgcgtctt tgtagagaga aggcctctaa gaatgtttat gcaatgaaaa 360

agcttaagaa atct 374

<210> 36691
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G6

<400> 36691

acaacatgaa ctcaagggct ggtagaggct ttacccttga ggagctgaag gctgctggca 60

tcccaaagaa gcttgctcca accattggta ttactgatga tcaccgccgc aagaacaaat 120

tccttgaggg actgcatgcc aatgtccaga ggcttaagac atacaaggcc aagctggtta 180

tcttcccaag gcgtgcgcgc aaggtgaagg ctggtgactc tactccagat gagcttgcca 240

ccgctaccca cgtccagggt gactacatgc catttactcg tggtgagaaa cgttcagttg 300

acgttgtgaa ggtcacagat gagatgaagt catttgctgc ctatggcaag ctccgtcttg 360

agcggatgaa caagaaacat ct 382

<210> 36692
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-G9

<400> 36692

gttcccacag tatgttgtcc cgacaatgcg tacaccattg ttcatactta atgcagccta 60

cgattcgtgg caggtcaaga acgtcctagc acctagtcca gctgatccga agaagacttg 120

ggcccaatgc aagcttgaca tcaagagctg ctccgccagc caactcacaa ccttgcaaaa 180

tttcaggaca gattttctgg cagcactccc taaaacgcag tctgtaggca tgttcatcga 240

ctcatgcaat gctcactgcc aatcaggatc tcaagacacg tggctagccg atggttctcc 300

cacggttaac aagacgcana ttggcaaggc ggtggnggac tggtactacg atagggaggt 360

ccctcggcag attgattgcc cgtatccctg caacccaact tgcaagaccc gtgatgatg 419

<210> 36693
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H10

<400> 36693

gcaaaagctc aaagttttgc atggttccgg tatcactgct ctggatgaat tagcaggtga 60

aatcgacatg aactcgcgga caacatttga gagattaaat tcacagatac agtcacacac 120

atcagccctt gagaactgtt tcggaggaat cgcttcggaa gcagataact tgttagatga 180

gcttcagcgc agcctatcga aacaagaaga gaggctagcc catttcgcag tgaagcagag 240

ggagggacac ctgagagctg tggaagcgtc acgttccatc tcaaagatca ctgctgggtt 300

cttccactcg ctagatgtcc atgcatctag gctcaccagt attctggaag acacacacag 360

cgtgcaagac caacaacttc ttgaccttga aaagaaattc gaggagtgcg cagctaatga 420

agaaaaa 427

<210> 36694
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H11

<400> 36694

cccacgcgtc cgtgtagatt cgtaatgaat tggccaggcg ctacttgagc agtatgaggc 60

gaaaaaagcc tataccgttt acgcaaaagt tcccaaatgc agatccactt gcactatgtt 120

tgttagagcg aatgctcgct tttgagccaa aagacaggcc aagtgctgaa gaggctcttg 180

ctgatcctta tttcaagaat atagccagtg tggatagaga gccttctgca caggctgtca 240

caaagcttga atttgaattc gagaggcgga gagttacaaa ggaagacata agggagctta 300

tatataggga aattcttgag tatcatccaa agatgctgaa ggagtttctt gaaggaactg 360

agtcaagtgg tttcatgtac ccaagtgcag tagatcattt taaaaag 407

<210> 36695
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-F4

<400> 36695

cggacgcgtg ggcggacgcg tgggcaggtc accaccattc cttccttgtt ccttccccag 60

ctccgcaggc tgctcatcgc cctcccctccg cgcccccgat ccagatccag atccaggggc 120

ttgtcatggc atccaaacgt atcctcaagg aattaaagga cttgcaaaag gaccctgcaa 180

catcatgcag tgcaggtcct gctggtgagg atatgttcca ctggcaggca accatcatgg 240

gtcctcctga tagtccatat gctggaggtg ttttctgggt gaacattcat ttaccgtcag 300

actacccctt caagcctaca aaggtatctt ttaagacgaa ggtcttccat gcaaacatca 360

atagtgatgg aagcatatgt cttgacattc ttaaggagca gtggagccct gctttgacaa 420

tctcta 426

<210> 36696
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-E10

<400> 36696

cggacgcgtg ggctttggcc ctgtttggat ccttcaagcc cggctagagc tagagctagg 60

ttctagctct aactctagcc caaactagct ctagctctct acgtgtttgg atccaagggc 120

tagtttacaa taaatgctat tttataatca tttgtctcgt ttaaaccttt ccttatccgg 180

atttagtgtg gcaaactctt gtgtggcttc tcccacacac aaataacaca aataaattta 240

ttttcacaaa tcaaacatcc aaatcacaat aaattagtaa attacaatag tcgaaaatgc 300

attcaataag aaattagaca aaacaaatcc gttgttttcc tgttctttcc aatgtggcca 360

gccgtgcccc tncactacct ttccatggat c 391

<210> 36697
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E11

<400> 36697

cggacgcgtg ggtcatgacg gatgagatat tcggcccgct gctcccgatc atcacggtga 60

agaagatcga agacagcatc aagttcctca ggtccaagcc caagccgctg gcgatctacg 120

ccttcaccag gaacgagaag ctgaagcaac gcatcataga cgagacgtcg tcggggagca 180

tcacgttcaa cgacgccatc gtgcagtatg gcctggacag catcccgttc ggtggcgtgg 240

ggcacagcgg gttcggccag taccacggca agtactcgtt tgacatgttc agccacaaga 300

aggcggtgct caagaggagc ttcctcgtcg agttcatgtt ccgctacccg ccgtgggacg 360

agaccaagat cggaatgctc ag 382

<210> 36698
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E12

<400> 36698

gcggcggcgg ggacacggta gtgggcctga cggcggtggc gctggcgcac acgctggtgg 60

tggccgtcat ggtgtcagcg gggctgcacg tctccggcgg ccacatcaac ccggccgtga 120

cgctgggcct cgccgccacg ggccgcatca cgctgttccg ctccgcgctc tacgtggccg 180

cccagctgct cggctccacg ctcgcctgcc tcctcctcgc tttcctcgca gttgccgaca 240

gcggcgtgcc cgtgcacgcg ctgggcgccg gcgtcggcgc gctccggggc gtgctcatgg 300

aggccgtgct caccttctcg ctgctcttcg cggtctacgc caccgtcgtc gacccgcgcc 360

gcgccgtcgg cggcatgggc ccgctgctgg tgggcctggt cgtcggcgcc aacgtgc 417

<210> 36699
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E2

<400> 36699

gcggcggcga gttcgctgcc aaggactaca cggaccctcc cccggcgccg ctgatcgacg 60

cggctgagct ggggtcctgg tcgctgtacc gcgccgtgat cgccgagttc atcgccacgc 120

tgctgttcct gtacatcacg gtggccaccg tgatcgggta caagcaccag acggacgcgt 180

cggcgtcggg tgccgacgcg gcgtgcggcg gcgtgggggt gctgggcatc gcctgggcct 240

tcggcggcat gatcttcgtc ctcgtctact gcaccggcgg catctcgggg ggccacatca 300

accccgccgt caccttcggc ctcttcctgg cgcgcaaggt ctccctggtg cgcgcgctgc 360

tctacatcgt ggc 373

<210> 36700
<211> 415

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E3

<400> 36700

cccacgcgtc cggacgagtt gaaggacatt aatgaccaac ctcatggaac atgggaggag 60

gtgtacagaa atgtgaaaag ggtagatagg ttaaaaaatg aattgcatga aagagatgac 120

aaggagcttg agcggacagg tcagccactt tgtatatatg agccttttt cggggagggg 180

acctggccat ttctgcacca gagctctctt tatcgtggag ttggcctgtc ttcaaaaggt 240

cgaagaccag gagcagatga tattgatgct tcttctcgtc ttccacttct caacaatgtt 300

tactacagag atattcttgg tgaatttgga gctttctttg ctcttgccaa cagaattgac 360

cgaatacaca aaaattcttg gatagggttt cagtcctgga aaggtacagc aagaa 415

<210> 36701
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E4

<400> 36701

acaggcttag cactcaggta aaacctctta tctgggtcga agcacagatt gagaaacatt 60

ctagaagccg tatagaactc atggtgaagg caaggagtca gttcaaggaa agaagcacag 120

caacaaatgt tgaaattgaa gtgcctgttc cttcagatgc cacaaaccca aatataagaa 180

cttcaatggg ttctgctgca tatgctcctg agagagatgc aatggtctgg aaagtaaaat 240

cattccctgg tggcaaggaa tacatgtgca gagcagaatt tagtcttcct agcataacag 300

cggaagaagg ggccccagaa aagaaggcac caatacgagt gaaatttgag ataccatatt 360

tcaccgtatc aggtattcag gttccgtatc tgaagataat tgaaaagagt ggttaccagg 420

cactcccctg ggttagatat atcac 445

<210> 36702
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E5

<400> 36702

ctctgcctcg ccggggaagc gatgcagcct ctgcaccaac cgccgatgaa cgggcaacac 60

ggcccgcctc ctccgcaggg atccggggtt cccacgcctt cgcagcagca ggcgccacct 120

ccgtcgtact accagcagca gcagcagcag gcgccaccgc ctcagtacta ccagcagggt 180

cccccacagc cgtgggcgca gcagcaacag tacgctccac cgccgccgca gtacccgcct 240

cagatgcagc agtacgctcc accaccgcag cagtacgctc ctccgccgcc gcagcagtac 300

gcccctccgt gcgagcagca gtccgctact tcgccgccgc agtacgctac ttcgacgccg 360

cagtacgcgc agccggcgca gtacgcgcag tcaccgcagt atgggacaac gccgggaaag 420

cgtgaggtca gaaccctgtg ga 442

<210> 36703
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E6

<400> 36703

gttgtgacaa gttctgcgaa aactcattac tgtggtttgc tttgtataac gccgccgaaa 60

caatcgaacg gtttccttta tcacctgctg ttctgttaag cttgtaatct ttctgaacgt 120

gcagttacct gcccagagct gagttcatta tacaataaat accgggatgt taatgtttgg 180

actctggtgc atggagatgc agtggtgctt gttattacca tgaaaataat gttttt 236

<210> 36704
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-E8

<400> 36704

aaacacgcat gataacgcgg attaccattt ctcaaagatc agatcaaaac atggatcaag 60

atccaacacg tccatgtaca aaaactagcc actacacatc acgcgaggtg gctcccgatt 120

attcgacttg ctgcacggct ccaattcagt tcatcaccat acacgcatgc atcgtggcgc 180

acgccactca cgagcgcggc gcccatgcgc ccacaactta ttacgactcg tcaccaacca 240

accaaaccaa gccacccagc aggtccagtc caggcgtgtg tgctgtgctc tcctctaccg 300

gccgccggcc acatcacgcc gccgaggcgc ccttggcgtc gccgctgcag tagtcgcgaa 360

cggcctcgag cttgaaaggc ggngcgtcng tggcgagcca ctgctcgacg gtgaacagct 420

gcttgccgca ccccttgtgc gggcccgtgg tgg 453

<210> 36705
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E9

<400> 36705

cccacgcgtc cggaagtggt cgttttgggg ccgcagctac tgattgcctt tgctgggagt 60

ccttttggat tcagtagtga accatgtaac ttcgagattt tggatacaaa tcggaaaatc 120

catttacatt gtttttacat cgacttgcag ttctgatgtc atcacagctg aaaaaaagcc 180

attgattcca gtggacatta cttccgagtt ttgatgttgc aaggatgaga agacatacat 240

tcctttt 247

<210> 36706
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-F1

<400> 36706

cccacgcgtc cgcccacgcg tccgccgagc caacgacgac gttcgacggc cgtagccaag 60

aaggtatctc gcccaaacaa aggccgtcaa gccaccatgg ccgtgtccgg cgagaagccg 120

ccaccgccac cgccaccggc cacggcgtcc ggcggaacgg caaggaagct catcctagcg 180

ctgcttacat gtctgtcgtc ggcgctgctg tacaggcaga ttcagccgct accgcccaag 240

atccccggca cgccgggcgg cccgccggtg acggcgacca ggacgaggct cagcgacggc 300

aggtacctgg cctatctgga aaccggcgtc ccgagggaga aggccaagca caggctcgtc 360

tttgtccatg ggttcgactc ctgcagacac gacgcgcttn cgatctccac ggagcttgcg 420

caagagctgg gcgtttacat g 441

<210> 36707
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-F10

<400> 36707

attcatttat gcaacatgat gtacaagaat tgaacagagt tctttccgag aagttggaag 60

ataagatgaa gggaactgtt gtggagggaa cgatacaaca attgtttgaa gggcaccaca 120

tgaactacat tgagtgtatc aatgtggatt tcaaatcaac aagaaaggaa tccttctatg 180

atctccagct tgatgtcaaa ggttgtcagg atgtctatgc ttcatttgat aagtacgtag 240

aagtggagcg tctggaaggt gacaacaagt atcatgccga caaacatggc ctgcaggatg 300

caaaaaaagg agttcttttt atcgacttcc ctcctgtttt gcaacttcag ctaaaacgtt 360

ttgaatatga ttttatgcgt gacacgatgg tgaagataaa cgatcgttat gaatttccac 420

tccaattgga tcttgataga gataatggaa aatatttatc 460

<210> 36708
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-F11

<400> 36708

gtgccacaga agtggtactg acaatatttg ttaagggtgt tcctgctgat agtgtagtca 60

ttgattttgg tgaacagatg ttgagtgtat ccattgaagt tcctggtgaa gaaccatacc 120

attttcagcc ccgtctgttt tctaagatta tccctgagaa atgcaaatat caagtcttat 180

ccaccaaggt tgaaatacgc cttgcaaaag ctgagcaggt gacatggaca accctggatt 240

atagtggaag accaaagact gttccccaga agataagcac gccagctgaa acagccccaa 300

gaccttcata cccatcttca aaggcgaaaa aagactggga taaactggaa gctgaagtca 360

aaaaggagga gaaggaagaa aacttgatgg tgatgct 397

<210> 36709
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-F12

<400> 36709

accttatcct tgcctttggg agtaagccct acctacatct ggaggcttcg tcgagccttg 60

gaaggccttt ttgttgatta cggctaattt ccaatggcag ctgagatgta acaaatttgc 120

tcagttcagt tctctaggaa aagttcccgt ggttcagcaa tgtgattggt ttcataggtt 180

ttttcgtgtg ttggtgatca aagcaatctg gtgtaagctt gcgtagttga catcagagtt 240

tgtttcttat ggttaggttc ttttgctttt catcctctac tgcacatcac agatccaagg 300

aggtttttc cccagcagat gaaaccatgc atgcagcgtc aaagaaggat tatcagttgg 360

agtccatgac tggctcagtt cgttcaaacc agatgacaga agaaaataac cgttcagctg 420

ttagtggtca ttgtggcagt agcccatcat ctcatcaaga at 462

<210> 36710
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-F2

<400> 36710

ggccttgaag cttgtgtgca gcgagggtga cgacggcatt gcgtcaggaa gattcagcca 60

ggagttgccc atgcaaacta cagcggttta tgacgcgact ggcatggaag ctgagagagt 120

gctaatatcc gagatatttg gctccacacc actctttact cgcggtgccg attcagattc 180

ttttcgcaag cagtcaagtt caggtccgct gatgacaggc aagaacagga agttctggca 240

gaggttgcga agcctgtcaa gagggagcat gagtgagcat ggcatctcac cagactatga 300

aacccgctcg caatatagtg gtaggtgagg aaacctttgc ttggctntga ttagaaaacg 360

gattgatact cagactggga ataaaagagt tcaagctgag ctagtgtaaa ctacgcatc 419

<210> 36711
<211> 279
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-F3

<400> 36711

gtgcctactg ggagaataca tttggggtat catcgtaggt agattatagc tcactaatag 60

gaatgatgac tgtggagagt ttttctggta ccagagaagg gcagaaggca cggaaatcct 120

cctgttcccg tctgttatat accttatcgt aggctgatat gcccaacagt atgtcagttt 180

taggcggtgc cataggacat gaggctggat ccagtgccat ttttcgatca tacttttat 240

ctattatact gttccagtga aaaaaaaata atgtatgtg 279

<210> 36712
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E1

<400> 36712

ggtggacgga cggtgctggc atcgccaatt caacttcgca tctgcatcgg cagcgcgcca 60

gctccatagg aggagatggc gctcacaaga atcggtcttg ctggccttgc ggtcatgggg 120

cagaaccttg ccctcaacat tgcagagaaa gggttcccca tctctgtgta caacaggaca 180

acctccaagg tggacgagac cgtgcagcgt gccaaggcag aaggaaacct tcccgtctac 240

ggcttccatg accccgcgtc ctttgtgaag tccattcaga agccacgggt ggtgatcatg 300

ctcgtcaagg ccggcgcgcc agttgaccag accatcgcga cgctcgcagc tcacttggag 360

cagggcgact gcatcatcga taggggggaac gagtggtacg aggacacgga gaggagggag 420

<210> 36713
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-C5

<400> 36713

gatctacggg aagcccactt gcaggtgctc ctcggaggcg gcggacagag atccagcgac 60

aacaacagca gcagcgccac gaacatttcg gctgatcctc ttctgtcgtc gttcggcctt 120

ggcttcccta cctcggacgc tgagcaagca tccaagtcga ccgtttccat tcctgatgat 180

gctacgacgg tgaaagaagc gcccgctcag gcacggaagc taagtatcga ttcgtcgctc 240

acaagtgaag aaagggagct gaagcggaag caagcccgcg tcagagccac gttcgtgcag 300

gacctgctgc tctctactct attcggcgac tgatgacaaa ccaatgctcc agagttcaga 360

cgtacacgca caaccgttac ttgcgtgcgt accgtaccac acacagatcg t 411

<210> 36714
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-C6

<400> 36714

cccacgcgtc cgcaaccctc agaaccttgt catagctgtc gagagtggga tctcatttgg 60

ccagttcttg ctgggagttt tcccagctat gatcgttggg gttctcacaa acgctgctat 120

cctccttttg tacttctgga aatacttgtc ggtggagaag gatcaggagg gtgggcagcc 180

cacaggacca gaggtggttg ccgacgatga ggttacttcc catcggttca caccggctag 240

aatgtcacat gtttcttctc tgaatccaga tgacatggat tgcgtaagcg aaccgatcat 300

caggagcaac agtgtcagta ctactgggaa tgagaacctg agaagcagaa gcatcaattc 360

tgaggctgac attcagcttg cgatcaagtc tctgcgggca tcaagcatgt cgcatgagat 420

ggtagaggtc tcgacggttc ctgatcggag agat 454

<210> 36715
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-C7

<400> 36715

ccaatggtca catcctccac tttggtagat ctaacaacta gactagattt cttcaaggag 60

cgaaggtcgc aactgatgga acaacttcat agccttgatt tgggacgtgg atctgctccg 120

caaggttttc cattcaagcc accctctcct tggaaccacc caaggtagga ggatgaccgt 180

tcgatttcat gattgtaaat tcttcagtag tggttctttt ctccccgcct ggcgattgca 240

gaaaactgca tatacgagtg taaatgtatt ttgctcttcg atatggtttt agctttcgtg 300

ttgtgcgagg atagctcctt aagtgggatg tgtgatatag tcttttctgt ataacacgtt 360

gtcatggaga gatgcctttt agacaagttt ttcc 394

<210> 36716
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-C8

<400> 36716

catgaactcc tcaagttaaa acttatccta tatatgccat gagaccacaa ctgcaactcg 60

tacgaataaa attgatatcc ttttacgtta ttctagtgtt gtttttactc atccctcata 120

ttcaaatgaa ttgaacaaaa gtacagaact ttattgttta ttttctcaac ctaacatgca 180

acatttcatc gttttcgtat ccagatgtgt gttgttatct ttattggaac aaatggccag 240

acgtatttca tcacggcttc acttgttaca agcatccaga atttcccaaa gagcaggggc 300

ccaacagtgg gcatcctcaa aggatttatg ggcctaacta gcgccattct gacacaagtt 360

tatacagtga tgcacactcc agaccatgct gcgcttatct tcatggttgc tgttggtccg 420

tcgctggttg ccattggctt gatgtttgtt at 452

<210> 36717
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-C9

<400> 36717

ggcttgatgt gaacaaagag cctttcaagt tcacaggcat atatattagg aaggctggat 60

gatgacatca aagagctgta cctagttata gaaattggac atcaccctat aaggatgacc 120

aaggatgtgc taagtacatt ggaatacatc cagattttcc gaactaagcg agcgaagtga 180

acgaggcaaa tggagatgaa cacttagatg ctggtcaaaa gggcaggggt cctaatggga 240

aggactgaag atgaggattc accggcaaga taaatggatg caactagtaa gacacctgag 300

gatgcgacag tatgagagca aagagatggg catgttaaac ctgatagtcc cgacta 356

<210> 36718
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-D10

<400> 36718

cggccatggc ggagcgggag cagtaagagc aggtggctag cgacgacgcg gcggagtgga 60

agcaggtggc ggagctgagg gccgtcaccc aggcccagga cccttcctgc aaggatgagg 120

acgactacac gctccggcgc ttcctccgcg cgcgggacca caacatcggc aaggcgtcgg 180

cgatgctgct caagtacctc aagtggaagc ccgcggccaa gccccacggc gccatcgcag 240

cggcggaggt ggcgcgggag gcggcgcagg ggaagctcta cctgcagggc cacgaccggg 300

aggggccgcc cctcatctac ggcttcggcg cgcgccacca cccggcgcgc agggacctcg 360

acgagttcaa gcgctacgtc gtccacgttc tcgacgccac cgtcgcgcgc ctgcccccctt 420

c 421

<210> 36719
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-D11

<400> 36719

cccacgcgtc cgcccacgcg tcctaagaaa ttgaagcaaa tcgctttacg aagatgtata 60

caagaaattt tggatctaag ggctctaacc actttttgag gcttgctact atttgatgaa 120

catgtttgta agttattagc tatgctctat ggagaactat aaatgattca ccataataat 180

atgaaagcct ggtagtaact cgtgaggcac atactattta tgattgttat gtgccatctt 240

atttgtttac cagtgccata ttacttacga aggcttttgt gatcattcag ggagccaaga 300

ggatttgggt tcgtggagtt cgttgatgct tatgacgctt ctgaggcaca gtaccacatg 360

aatcgccaga tgtttgctgg gcgtgaaata actgttgtac ttgctgcgga tacacggaaa 420

<210> 36720
<211> 428
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-D12

<400> 36720

ctttccacaa gaacatcaca cggcgatagc aaaaccttcc gtcggaggat ggcttccgcc 60

ggcgctggag aaggcaagga gacggggacg gctgccggga gcagcctcca cagcaagact 120

ctcctcaaga gccaaccact gtaccagtac atactggaat ccaccgtctt cccacgcgag 180

ccggactgcc tgcgggagct ccgcgtcgcc accgccaccc accccatggc gggcatggct 240

gcgtcgccgg acgaggtgca gctgctgcag ctcctgatcg agattcttgg cgccaagaac 300

gccatcgagg ttggcgtctt caccgggtac tcgctgctcg ccaaccgcct cgccctcccc 360

gacgacggca agattgtggc catcgacgtt acccgcgaga gctacgacca gattgggtcg 420

cccgtgat 428

<210> 36721
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-D2

<400> 36721

ggaacagaag gaatgttctg gaggaagaaa ttacatcgag tagattggtc ttcgatcctc 60

cggacatctc gcttgagaaa actgtacact cgctcgcgga cgcaaacacg atggttgcta 120

gtatttacac gctcacgccg gctggccggt cgacccgcgc aggctcgtct cgacgaagaa 180

gagaaggatt cttggcacgc accaccaggg gggggggcgt cattccgcgg caacgactgc 240

cgctggccgc gtgcggaggc tcgggctccg cggctgccgc agcatctcga tcagcgactc 300

cgccttggtt ttgagcttgg ggcgggcgga agaggactgg gagagggcga cgaggggcgg 360

gatggcgccc tcgcgggcg 379

<210> 36722
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-D3

<400> 36722

cccacgcgtg cgcccacgcg tccgcttact acggtcctct ctgtggtcta ttctgctgta 60

cgcgctggct cctctgcaac tgtgctctcg ccaccagact caccacgtgg gaccgacaag 120

ccattgcttc ccttcagcaa ggcagacgaa caagaagata agaaggatgt gccgaggccg 180

gtgacatact cctactcttt ctttcacctc atcttctccc tggccagcat gtactcggca 240

atgctcttga ctggctggtc aacttcggat ggtgagagcg gaaagcttgt ggatgttggg 300

tggccatctg tctgggtcag gattgcaacc cagtgggcga cggcaggtct gttcatatgg 360

tcgcttgttg cacccgtact ctttcccgac agggaattct aagttcaacc acggtaagcc 420

tggagcatca aacgtgtcta ctgggggagc taatata 457

<210> 36723
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-D4

<400> 36723

gatggacttt gccttcccgt acctgttgct gttcattcgt gaatacacta gcaaggtgga 60

tgatttagtg aaggacaaga ttgagtcgca gaaggaagaa agagccaaag agaaggagga 120

gaaagacctt gtggctcagc agaacatgta tgcacagctg cttcctctcg ctttgcccgc 180

cccgccaatg cctggcatgg gtggccctcc acctccgatg ggcggaatgg gcatgcctcc 240

gatgggtatg ccgccgatgc cagcatttgg gatgccaccg atgggaagct actgatttgg 300

ttttgcagca taagtggaac ttcattggag ttgtagatgg ttgacagttt ggaatcaata 360

ttcttcattg taccaggaaa ctttttggcg agtgagtgaa atcagtctta cccgtaagtt 420

gagaagtgca acctgtgata ttgtta 446

<210> 36724
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-D6

<400> 36724

cccacgcgtc cggtgctggc cgtgtgcgct ttcacggcgg cggaggggtt cgacatcctg 60

cagatcctgg ggaagcacga cgagttctcg cagttctgca agctgctcaa cgagacgcac 120

ctggccggcg acatcaaccg cgaccgcaca atcaccgtgc tggccgtggc caacggcgac 180

atgggccacc tcgccgccgg ccactactcg ctcggcacca tccgccacat cctcgagctg 240

cacgtcgtcg ccgactacta cgacgacaag aagctcaagc agctgtcgca cgccgccacc 300

gncgcgtgca ccttgttcca gcgatccgga tttgcccccg gcatggcagg atacgtgaac 360

ataacgcagc accgcggcgg caaggtgtcg ttcatcgtgg acgacgcggc ggacagcgtc 420

aagcccgtca cctacgtgaa gcagatcgag agccacc 457

<210> 36725
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-D7

<400> 36725

ccgggacagt ttggcatccc ggacgccggt cccatcggcg cattgaagga gctggagctc 60

gggaacggcc gggacgagtc gtcggtgtcc gatccggcgt ccggcagcgc ggagatggcg 120

ctcaacaagg ggccttccga cggcaatgcg aagaaacgga aggctagcgg gaagggcaaa 180

ggcaaggatg gccccgggtc cgccgccgcc aaggaggagt cgagtgggaa gcggtgccga 240

tcggcggacg agagcagtgg cgcggaggac aacaacccca ccaccaaggg caaggccgcg 300

cagagcagta gcgagaatgg tggtggcaag aagcagcagg ggaaggagag cgcgacgaag 360

ccccccgccg aggcgcccaa ggactacatc catgtccggg cgcggcgcgg cgaggcgacg 420

gacagccaca ggctcgcgga gagggtgaga agggagaaga t 461

<210> 36726
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-D8

<400> 36726

caggaaaaaa ggcccagagg cagtgccgtt accgattcga gacgcaagag aaggatcgag 60

acgaggcggc ggttttccgg ggcagcatcg tctcggccac gaagatgtct tactcaaggg 120

gctcaaggta tggatctcgc tcaccttact cgagaagcac aaggtaccga agtcgctcta 180

ggagtgtcga ctctagtgat gctgaaaacc ctgggaacaa cctgtatgtg actggtttgt 240

cggctcgtgt aacggatcga gatctggaga agcacttctc cactgagggt gaggtgattg 300

atgcaagcgt tgtgtatgat ccttggacaa gggaatcacg ggggtttggt tntgttacca 360

tggctgctgt taaagatgca gatcgctgca tcaaatatct ggaccgttct gtgttgcaag 420

gtcgggtcat aactgttga 439

<210> 36727
<211> 468
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-C3

<400> 36727

gagaaggaaa aatatcccca aaccctagct cccgatctcg atggcgaacc ctcgcgtctt 60

cttcgacatg accgtcggcg gcgccccggc gggccggatc gtgatggagc tgtacgccaa 120

cgaggtgccc aagaccgcgg agaacttccg cgcgctgtgc acgggcgaga agggcgtggg 180

caagtccggg aagccgctcc actacaaggg ctccaccttc caccgcgtca tccccgagtt 240

catgtgccag ggcggcgact tcacccgcgg caacggcacc ggcggcgagt ccatctacgg 300

cgagaagttc cccgacgaga agttcgtgcg caagcacacc gtccccggtg tgctctccat 360

ggccaacgcc gggcccaaca ccaacggctt ccagttcttc atctgcaccg tcgcgacccc 420

ttggctcgac ngcaagcacg tcgtcttcgg caggtcgtcg agggcatg 468

<210> 36728
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-A9

<400> 36728

cggacgcgtg ggctccgcca gtacgacggt tcagacccta agaagccgct cctcatggcc 60

atcaagggcc agatctacga cgtcacccag agcagaatgt tctatggacc cggcggacct 120

tatgccctgt tcgccggcaa agatgccagc agagctctag caaagatgtc gttcgagcca 180

caggacctca ccggcgacgt ctcgggccta ggcccgtttg agctcgacgc cctgcaggac 240

tgggagtaca agttcatgag caagtacgtg aaggtcggca cggtcaagaa gagcgtccct 300

gtggaaggcg gcagcaccgc gagcaccact gaggctgaga aggcgccgac aaccgaagag 360

aagccaagcg gngcggtggt tgaggagaag gaagccgtgg ctaatgaagg tgcccaggaa 420

aactagagct tttctgtgca tgccggcata attcgacat 459

<210> 36729
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-B1

<400> 36729

aaaagaacat ttgttgtgag gaaaggaggc cttcctgatg ctgttgtttg gaacccctgg 60

gacaaaaaag caaaggctat gtcagatttt ggggatgatg aatataaacg aatggtatgc 120

gtggaggcgg ctgctattga aaagactgtc actctgaagc ctggtgaaga gtggactgga 180

aagttggaac tttctgctgt gccatctagc tattacagtg gtcagctaga ccctgaccgt 240

gtgattcagg attccactgt cccggatgac tccatcagct agtccttatt ctatttttgc 300

aggtagagca ttgtatcatt atgcataaga gatgctggca acaagggctg tacacatgtt 360

tc 362

<210> 36730
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-B10

<400> 36730

cccacgcgtc cggtgctggc cgtgtgcgcc ttcacggcgg cggaggggtt cgacatcctg 60

cagatcctgg ggaagcacga cgagttctcg cagttctgca agctgctcaa cgagacgcac 120

ctggccggcg acatcaaccg cgaccgcaca atcaccgtgc tggccgtggc caacggcgac 180

atgggccacc tcgccgccgg ccactactcg ctcggcacca tccgccacat cctcgagctg 240

cacgtcgtcg ccgactacta cgacgacaag aagctcaagc agctgtcgca cgccgncacc 300

gncgcgtcca ccttgttcca gcgatccgga tttgcccccg gcatggcagg atacgtgaac 360

ataacgcagc accgcggcgg caaggtgtcg gtcatcgtgg acgacgcggc ggacagcgtc 420

aagcccgtca cctacgtgaa gcagatcgag a 451

<210> 36731
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-B11

<400> 36731

caaatcgcaa agaggcgtct tccaagcttg tagggttacc ggatcggagg agcatccccg 60

cctaggtcac cacagccatg gttcgcggat cgctaggcaa gcttgcgtcg cgcgccctct 120

ccgtcgccgg gagatggcag caccagcagc ttcgccgcct caacatccac gagtaccagg 180

gtgcggagtt gatggggaag tacggtatca acgtacccag gggtgcggcg gcggggtccg 240

tacaggaggt caatgacgcc ttgaagaaca tgttccccag tgagaaagag atagttgtta 300

aaagtcaaat ccttgctggt ggccgagggc tgggaacttt caaaagtggg ctgcaaggag 360

gtgtccatat tgttaaggct gangaagctg aaagcattgc acgtaaaat 409

<210> 36732
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-B12

<400> 36732

caacaatgta tggacagcca tgcaaatttg tctggggatg gagagataga gattgacatg 60

catgctgtca gtgatgactt gttatttgag ctgaagaaac atgttgacaa gtatttgcaa 120

gagaaagagc agagccagca ggtgaaatct gagccctccg agaatgaagc tgtgaatgta 180

tctggcctta gccactcttc tacaaatcct tgcaaaggcg gcgaacctat cgaagaggat 240

gtggacatct gtggcaatgc ctcacctatc atgctagaca aagatgcaca aatcaggaat 300

agcaagtgtg gtagtccaag tagttccagc agcgactctg aatcatcttc tagcgattct 360

gattcaggca gtgactctta aagcgaatca aaaaaagttg gcag 404

<210> 36733
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-B2

<400> 36733

cacttgtctg ttggtttggt tgttcatcct tttgggtctt gaatgtctgt tcatcaactg 60

ttttatttat aatattgttt tgacttgtca acacaccaca ttctttgcac ttagtgacat 120

cacttgtagt tgacattcca aggtctgaca tctgtatggg tatggaagaa tggaagggac 180

taaagggttg agcaaagata gattatagag agcagagaaa acccatctat ctaaggtttt 240

tcctagctaa ttgatgccat tgtggacaaa agtcacacaa tacaccaaca atcattacaa 300

agaagcaaat ctaacatagt cacaaagata actaacatga actcaaacat atcagcacaa 360

cataactcga tgttattcat tcaatcaaaa ggcaatcttg cctatggaaa aacaatttct 420

tataagtttt ttcgaaaggc gggacaagg 449

<210> 36734
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-B3

<400> 36734

cccacgcgtc cgcccacgcg tccggttggt gatcctcagc cttcggagga gtcgtgagtg 60

catacttcag tggttcttta gtggatactt atggtgtaag atttgttttt ggtgttacag 120

cacttctgcc actgatgaca tctgctgttg cagttcttgt aaatgaagaa cgcttacctt 180

tggggaaaag ttcagtctca ctttcagttc caagttcaga attaattgag agctctaaga 240

aacgtatcat gcagatttgg gattcagtaa agcaacccag catactccta cccaccttgt 300

tcatattcct ttggctagca acaccgcaat cagactctgc catgnttttc ttcataacaa 360

ataagctcgg gtttactcca gaatttttag gacgtgttac gcttgtcaca atctgtgcat 420

tcttactggg aatcggagt 439

<210> 36735
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-B4

<400> 36735

gaacgagaag ttcttgaagg aatttttttct taagaggccg taccttgaga cagagaagag 60

taagtcctat ctagataata tccaggaatt gtcagatgaa gaggagctcg agattcagga 120

agagtatgag catgcttata attaccggca tgaggaggcc atggcatcag gggcagtggt 180

ggcggatcgg gtgttgggac attccagggt tgttgaaggt tcggtgagga agaaggagag 240

cagcagaaag cagcagcgca agagcaaaga ggagcggatg gcccgtgtta agcaagagca 300

ggcagaggag ctgaagcatc tcaagaattt gaagaagaaa gagattgcag agaagcttga 360

gaggatccga atgattgctg ggattgaagg agatgctgct tgtaagnctg gtgctgatga 420

cttgg 425

<210> 36736
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-B7

<400> 36736

cccacgcgtc cgcggacgcg tgggcggact cgtgggcgcc gccgccgtcg ccggagccat 60

ggcgtcgcgg cgctgtctcc tccgcttcct ctcgatccgc ctcgttcctc agagatctca 120

acctcttgcg ccgatctcga ctgcgacccg gaccctaacc tctttgtccg aggccctcgg 180

ctccccagct ccccgggccc tcgcctcccc ccggctgtac taccctcgc gctgccactt 240

cgcgacccgc tcctccggcg acgaggacga cggagaagac gaagaagagc actacgacga 300

tgaggggagc gatggggaat gggggggacga tgaggaggtg gtggctgcga agaaaccgag 360

cgggaagac 369

<210> 36737
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-B8

<400> 36737

gtcaaactag ctgtggaatg ggggcaacgt ttacagtaca tatgtctgca cttatgacac 60

tgggactgaa cgacattctg aggacagaaa ttgacatcac atgcttgaca gatgctcaga 120

ctgtgatctg actggcattt ctggatcgca aacctattct tactacaaga ttgacgctta 180

tacatatcaa gtgcacacac acaggagttg cacatacttg actgccgatt gttactccaa 240

aacgggtcgg cttacgagtc gtaacgatca tgatgctact cggtacgcct aatctgtatg 300

gcactatggt ggctaacac 319

<210> 36738
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-B9

<400> 36738

cccacgcgtc cggcccgtcg cggtcgaact ggccgccgac gcggaggctg ctgctcctgc 60

tggtcccgac gagactcctg cggtcgagca ggacgcagcc gccgaggagg aggctgctgc 120

tgctcctcct gctggtgccg aggagcccgc cgcggacgag cctgtcgccg aggcagaggc 180

tgctgctccc gaggagctcg ccgcggacga gccggaggct cctgctcctg ctcctgctgg 240

tccccaggag ccggccgccg aggccgacgc tgctgatcct gacgagcccg agatggccac 300

cgagtgaggc cgtgcgcacg cagcggcggc agccagggcc caggccccaa gggatcggca 360

tgcgcgcgtg gcggtgtagt cttttgcgcg cgtacatcgc agtatgacac gggattttgc 420

ttgccagtac gctacg 436

<210> 36739

<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-C1

<400> 36739

gatgaatcgg ttatttgtgt aatgcacact agtcttttca gcgggacagt ttgcatacgg 60

caacaggtct acagtcatca gatgtacagt cgtcaagccg gttgcattcg gaacgtcgcc 120

atgcctatgc ttgttatccc accaacctac ttacacgtat ccaccgatcc tttaaaaccg 180

ctcaatttgt acacgatgtg ctggctttca caagatgcaa agc 223

<210> 36740
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-C11

<400> 36740

ggcaaaagcc aaaaggcatc accttcgcga cgacgatggc agcctcgctc caagccgcgg 60

gcaccctgat gcagccggcc aagatcggcg gccgggcgcc ctttgcctcg ctgccgtccc 120

gcccgtcgtc gcaactcgcc tgcagggcgt tcggcgtcga cgccggcgcc gacaggatca 180

cgtgctccct gcaggacgtc gccagcaggt gcgtcgacgc cgcgaagctc gccggcttcg 240

cgctcgccac ctcggcgctc ctcgtctcgg gcgcgagcgc ggagggcacg cccaagaggc 300

tgacctacga cgagatccag agcaaaacgt acatggaggt gaagggcacg ggcacggcga 360

accagtgccc gaccatcgac tgcggcgagg gagtcgtccc gttc 404

<210> 36741
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-C12

<400> 36741

cccacgcgtc cgcggacgcg tggtgcagtt gacagtgaaa gaaagatagt atcaagtgca 60

gactttgact tctacatcgt cgaggatgtg attcatgttg tggagtccaa acctaccaag 120

cgtcatggtg attacttttt gagacaaatt ttgaagtttg aggaaatgat tggtgaactg 180

gagaaggtac agcttgactg aaatctgata gcgatcatgg agagaaatgt cactgtttcc 240

tttttgctct cttttgtact ccgttgaaac cccatctttt tttgtttcct tattgactct 300

gaagcccgtt gaaaccggcc attattaacc gtgtaccgtg taatgttact taggccctgt 360

ttggttcgga tt 372

<210> 36742
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-C2

<400> 36742

gactagttct agatcgcgag cagcccccct ttttttttt ttttaaaaaa tatatggggc 60

agacaattgc tgattactat tactaattgg aatgtaacac gcttgagaca gcaatacatt 120

acagagctac ctaaatggga ataccacaat accgaccgaa accaccatga ataactgaat 180

taagcttaca cgacatagcc aacacgggaa accattttga tgaaattctt gcggctgcct 240

ggatgctgtg tgcatcacag tattgaacct tacgtgtcgc agcagcagac aagaatggca 300

agtttcaatg atatcgcagc taaaacagca tgttgaattc tt 342

<210> 36743
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A7

<400> 36743

cttcttcgac gggtgtgaga agacgggcct gcaagtgcag cacctgggtg atcttgtgta 60

ccttattagc aataaacaag aggcggattt tgtggaaacg aagtcagacg gtggcagtag 120

tgaggggatg atttttgag taggttttgt taagtcatat tttgttcaat ttcccccaaa 180

cacttgattt tttgtttctc tgattctatt tgggatattc tgtttgattc tgttgcaaga 240

ttgtttatgc actgaggtgg tttataatgg cttaagcatg cagcccagcg aggtgatcta 300

tgcaggctta t 311

<210> 36744
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H12

<400> 36744

cccacgcgtc cgcaatgtgc tacaaataat taaattaaaa ccaaaagacc ccggcgcgga 60

ggtgatcgcg ctgtcgccgc gcacgctggt ggcgacgaac cggttcgtgt gcgagatctg 120

caacaagggg ttccagcggg accagaacct gcagctgcac cgccggggcc acaacctccc 180

ctggaagctc cgccagcgca gcagcctcgt cgccccgtcg tcggcggcgg caggctccgg 240

cggcaggcag cagcagcagg gcgaggccgc gccgccgcgt aagcgcgtct acgtctgccc 300

cgagcccacg tgcgtgcacc acgacccggc gagagctctg ggggacttga ctgggatcaa 360

gaagcacttc tcgcggaagc acggggagaa gcggtggt 398

<210> 36745
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H2

<400> 36745

gggagggcat ggacgagatg gagttcaccg aggccgagag caacatgaac gacctcgtgt 60

ccgagtacca gcagtaccag gacgccaccg ccgacgagga gggcgagtac gaggacgagg 120

aggagggaga tctccaggac tagaataggc tgcttcacat tcagtcaccg tcagtcatga 180

aaaactaatc atttgctgct tttcgtcgtc gtagtagtag taggtcggta atcatctgtc 240

gtgggtttgt ttcgtttcta tcattaatca gcattagtag tagcagctgc tgctgcgggg 300

gcacaacaca agggggggat aggaactgca ataccctgtt gcgctttggt tgtttctgga 360

accgatgtta tgttaaattc tcaa 384

<210> 36746
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H3

<400> 36746

cccacgcgtc cgggacttcc cggaccccaa gccgtcgcgc gaagagatga tcgagacata 60

cctccagact ctcgccaagg tcgtcgggag ttatgaggag gccaagaaga ggatgtatgc 120

ttttagtacg acgacttatg ttggttttca ggctgtaatg accgaggaaa tgtcagaaaa 180

atttcgcggt ttgcctggag tagttttcat tttgcctgat tcatatctat atccagaaac 240

aaaggagtac ggaggagaca aatatgacaa tggtgtcatc actccaagac caccacctgt 300

tcattatagc agaccatcaa gaactgacag gaaccgtaac taccgaggaa actaccagga 360

tggcccttca ca 372

<210> 36747
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H4

<400> 36747

cccacgcgtt cgggacttac ctgaccccta gcctttcgc gaagagatga tcgagacata 60

cctcggtact atcgccaagg acgggggtag ttctgatgag gccaagaaga ggatgtatga 120

tcatacgccc accacccatg tttgactata ggctgctaaa accgatgaca tgccataccg 180

attactcggc atgacggccg ttatccacat tcagcctgac acatatctat agccattcac 240

gaaggaatac ggacgataca aaaattacat tcgcctcatt actacgagtc cagcacctgt 300

ggataataac atagcattga ttactgacac gatccccaat taccca 346

<210> 36748
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H5

<400> 36748

cggacgcgtg gggaactaca agtttggttt cggaatgacc gtaggagagt aattctgcta 60

aaacaattgc tgagaagagc acatgaggac tttcgcagtc tgctttgcat tgtatgttaa 120

gatacttcag gtctcagttt tgattgatca ggttctgccc cgtcgaaaaa aatactagct 180

gttgctgctt tacagggttt tgtctcagtg tattggtggt tgtttatttt cagctacttg 240

agcatggggg ccatgattct ttgttcatct tggatgtaac tagctgattg gtgttccaat 300

gatgttgtat ttgcagaacg atttttttcct tttaaatcac caacaaccac cacactaggc 360

tttttctg 368

<210> 36749
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H6

<400> 36749

ctctccttcc cgagcaggag gcggacaatg taagcagcaa tcgcaggaac cctagcgccg 60

ccgcacccgc aggaatgggt atcgacctcg tcgccggtgg gaggaataag aagaccaagc 120

gcactgcgcc caagtctgac gatgtctacc tcaagctcct cgtcaagctc taccgtttct 180

tggtcaggag gaccaagagc aatttcaacg ctgtcattct caagaggctt ttcatgagta 240

aaaccaaccg accaccaatc tccatgcgcc gccttgtcaa gtttatggaa ggaaaggaga 300

agaacattgc tgtcattgtt ggcacagtca cagatgacaa aaggatccag gaggttccag 360

caatgaaggt tactgccctg 380

<210> 36750
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H7

<400> 36750

aaaaatataa agcaataaat aaagagcagt cgggttaata aaactgagaa aattgactcg 60

gaaaaaaaaa ttggaagctc cattgcagga ttcaaaccta accattaaag gagaagctgt 120

gggaacgaca aaacctatga ctacatagga ttttattgaa aagaatccta acacttcatt 180

gggtgggatg gcggaacaaa ccaaaaaaat tgctttattt gataaggttc taaattaaca 240

aataagacag gaaagagtaa atattcgccc gcgaaatcct tattggatta gaatacttta 300

ccacgattca ataagaataa aaaaaaagga gattccaaaa aaggaaggat tacattttat 360

ataaatattg aa 372

<210> 36751
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H8

<400> 36751

ggacaatgat ctatctgaat ttgatgaatc tcgagagata atagagagcc tagttgatga 60

atacaaggcc tgcgagtcgc ctgactacat caaatgggga atggaggacc ctggagaggc 120

aaatgttgtg gcggcacttg actctaagtt ggtagtgtaa atataaaggt accatctcac 180

agtattaggc acttttatg cagaaacaat ttgacgcaca atcatattga attgattatc 240

cacttgaaac cttgaacact tgctttcttt tgataaccat gtggactaca ccaattatta 300

taaacgatgc acaatctctg ctagatgttg aaaatgatac taaatccctc atttttcgta 360

tctattgctg gcaaataaca 380

<210> 36752
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-A10

<400> 36752

cgcccgctgc tccccgccga cgccttcgac cgcgcgctcg cgcggttctg gtgccacttc 60

gccgacgaca agctcgggcc ggcggtgggc gcggtgttcg cgtcgacggg ggagggccag 120

gaggcggcgg tgcggcaggt gcacgagaac ctggcgctga tcgagtccga gctccgcgac 180

ggcgcgttcc ggggccgccg cttcttcggc ggcgacgagg tgggcctgct ggacgtcgtc 240

ctgggctgcg gctcctactg gctcgccgtg ttcgaggagg tgaccggggt gcgcctcgtg 300

gacgccgacg ccttcccgcg cttccacgcc tggctgcgcg acttcgaggc cctggacgag 360

gtccgggaga ccattcccgc ggtggaccgn ctgctcgagt acgcgcgcgg gcttc 415

<210> 36753
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-A11

<400> 36753

caacatctac ctcaacttcg acgccttcca cggcgacaag gaccacggcg gcgtgcgcga 60

cggcaccaac atcgtgctct ggaagtggtg cgagggcgac aaccagcgct ggaagatcgt 120

cccctggtaa atgtgctgtt ctgtggctgc actggtcatc accatgatct ggagctttga 180

aggcatagcc acctgtggtc agcagctgct gccgtgttgt tagaataaag ttggtggcga 240

tcgatcgatc tgtggtgatg agtgtcccta tctgtgtgtt tgtgtttagt tccagtcgtc 300

tgtgaggaag tcagttatgt ttgagtgaga ggggtacttc gctcttcggt gaacactgta 360

cttgtcatga ggagagtttt catacccgga gtgtangaac tctgtactgt actcggatcc 420

ttcctttntc atcgaagtgg gttttatttt aaaaa 455

<210> 36754
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A12

<400> 36754

gggatgtcta cctcgacctc ctccaggccg actactcact tgttcccaat aaccttgccg 60

caggtgaagc agcgcactgg gataatcatc ttcacctgcg gcaaggttat tgggaacaag 120

tgggatgtct acctcgacct cctccaggcc gactactcag aaggggatgc tctggatgct 180

ttggaattgt tccgctactg ctgcaggcga atgctcatga cacatgttga cctcattgag 240

aagttgctca actacaacac cctagagaag accgagacaa gttaagcgag cacatcatgc 300

tccaaaaaca ctactgtttc gcagtatcat agagcttagg tagtatgttg tctcttctct 360

atcagtagaa atgggttgtg agtgtgaaca tgcttttgct catgagcatt caaggacttt 420

tcatgcgaca gtgcttggtg gcacctatgc aacgatggtg gatatttta 469

<210> 36755

<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-A2

<400> 36755

aaaaagatag gtgaacgggg acgtccaata tccccagcgc aaccatggtt ggagatcatc 60

tgtttcagtt tgcagaattg gttaacaact tgttgcacaa acttttagta aagatttatg 120

tagattgcaa taagagctgc agtccctagc atgttggcca tcacttgcgt ccttcctatg 180

gccgctaaga agcgatacaa gcccattgac atttgatgca tggcaaaaag taccagaaag 240

tgctggagga tcctgccata agcaatggaa tttcatttct tgcttttacc tattgaagtt 300

gaagcatcag aagtcattca gcatgcaagt accaggagat gagtacctga tagcagaagg 360

ttctagcaca agctanttgc tttcatcaca aggttcctgg gctttggatc tatgcggcag 420

catgggaatt cgattaaaac ctgaacgtcg tcgtagcatg tgcact 466

<210> 36756
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A3

<400> 36756

acgaaaagaa catctgctgt gaggcaagga attttccttg aggctgcagc acagaaccca 60

tgggacggta cagcttaggc tatgtcaaaa ttttgggatt atgaatatca acgaatggta 120

tgccctaagg cggctgttat tgaaaagact 150

<210> 36757
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A4

<400> 36757

cccacgcgtc cgcccacgcg tccgcccact cgtccgcgga cgcgtgggct tcactctcct 60

ggtttattcc tccgtgccga tctcgtcttc tccggcggga ccatggcgcc gtcctcctcc 120

cgattcgacg atccggcggc ggtgaggcgc cccccgcagc atgaacggaa gccgccgtat 180

atgttgcttc tcccgctcgt ctacgccccc gtcctccccc tcatcaggat cgggctgcgg 240

cacaatcccg tggtgaggga ccgcctcttc tacggcgtcc tcgccggcgc attcgcccac 300

ggcgcctacc tcatatcgga actgtatgat gtggagagca aatgatggac atccctcgaa 360

ggatgagggg ataacgtttc aagtagcaaa atttgattcc atcgggattc cagattgttg 420

gatgagagct gacatggcaa tttatactaa cta 453

<210> 36758
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A6

<400> 36758

cccacgcgtc cgcccacgcg tccttggact cgtgggttcc acgcgtcgat ggcctcgggt 60

atttatacaa gctcaatgta ggagttgacc ttccattaca cactcaggcg cgattggggg 120

ggcgtgtcgg agctagtcca tcgctttcgg cttggtgcgt aactactacc ctaaacttca 180

catttgatat aggagccgac actggtaagg gacgaaaatt tcctggtgtt acggatgcca 240

agggcctcct tctcaatcac aatagcctgt ctgggccact tccggcggac cttggctatt 300

ccaaggtgag ctacctagct ctggctaaca acaggctgac agggccaatc ccgcaatcga 360

ttggccacct ccaggattcc ctcttcgaga tgctgctcct tgacaaccag ctttccggat 420

gccttccgca cgagc 435

<210> 36759
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H11

<400> 36759

gccacgcgtg cggccacgcg tacgcccacg tgtccggttc tgctcgacgg agaccacaac 60

cgttacgtct cagactacgg gctgagctcg ttgacgagcc ttccgatcac cacttcccga 120

gctgtcgctg gctaccgagc tcaggagacc ttcgaatcga ggaagttcac ccacaagtcc 180

gacgtgtacg gcttcggcgt cctgctcatg gagacgctga cgggcaaggc cccgcttcag 240

tcacagggtc aggacgacgc cgtcgaccta ccgaggtggg tgcattccgt ggtccgcgag 300

gagtggaccg ctgaagtgtt tgacgtccag ctgatgaagt atcccaacat agaagacgag 360

ct 362

<210> 36760
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F7

<400> 36760

gacctcttca aggccgctgc ggccgactgt cgcgacacgc tcttctgcga ggtggctccg 60

aacccgccgc cgcgggagga gctgccggag ccactgagga acgtgatgct ggagtacggc 120

gcggcggtga cgaagctggc gcggttcgtg ttcgagctgc tgtccgagtc cctcggcatg 180

cccagcgacc acctgtacga gatggagtgc atgcagaacc tgaacgtggt gtgccagtac 240

tacccgccgt gcccggagcc gcaccgcacc gtgggcgtca agaggcacac ggaccctggc 300

ttcttcacca tcctcctgca ggacggcatg ggcggcctgc aggtgcgcct cggcaacaac 360

gggcagagcg 370

<210> 36761
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F8

<400> 36761

gttcgttttc aggaaacggc acggaacatg gatcttggag gtgcatctag ccgcaggtca 60

cggtcaattc acttgacaag ctcactttcc accaaatctc tcagcctcag gtctggaagt 120

ctaaagaatc tcagctatca gtacagtact ggagcagatg gtcgcattga gatgatttct 180

aatgctgata atgaccgcaa atacccagcg ccacgtggct acttcttcaa gcttctgaaa 240

ctgaacgcac ctgaatggcc atatgcagtg ttgggggcca ttggttctgt cctctcagga 300

tttattggcc caacttttgc cattgttatg ggcgaaatgc ttgatgtgtt ttactacagg 360

gaccccaatg aaattgaga 379

<210> 36762
<211> 362
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-042-Q1-K1-F9

<400> 36762

cacctctgct accccaacaa aaccaggact acgcctcgcg cggcgctgtc atgctcccgg 60

cgttcggcaa cccgctctgg gtaccggagg acgtcgacga ccagcagcag caccacgcgc 120

cgccgccgac gcccatgggg ttggggccgg ggcaggggca cgatgaacag aacctcctgg 180

ccctggcctc cgccgccgcc atgggggccg gcggtatttt cagctcgcca gcggtgctcg 240

acgacgactg gtacttcgac cccgtggctg tggccgncgn cgccggcgct caggggcagc 300

tgctcctggc accgncgggc ccagcgcccg acgccgggtc gcagatgttc tcgctcttca 360

ac 362

<210> 36763
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G1

<400> 36763

ccgggtgtcc ccggccatcg accacctcga cgcgtacgac tccaacccgc tgcagctcgg 60

cctggccgta gtggaccgcc tcaacgctct ccaggaggag accgggcggc tggcctacct 120

gcacgtgacg cagccacggt acacggcgta cgggcagacg gagtccggcc agcacgggag 180

cgccgaggag gagagccggc tgatgcgcgc cctgcggggc gcctaccgcg gcacgttcat 240

gtgcagcggt gggtacacgc gcgagctcgg cgtggaggcc gtcgagtcgt gggacgccga 300

cctggtgtcc tacgggcggc tgttcatcgc taacccggac ctggtggagc ggttccggcg 360

cgacgccccg c 371

<210> 36764

<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G10

<400> 36764

cttccccgca cccaaccccc gtcggagagt gagatggcat cggtggcgga gatgcagccc 60

ctcgcgccgg cggggtaccg ccgcgcgccg gagatgaagg agaaggtgga ggcgtcggtg 120

gtggacctgg aggccggcac cggggagacg ctgtacccgg ggatctcgcg cggggagagc 180

gccctccgat ggggcttcgt ccgcaaggtc tacggcatcc tcgctgcgca gctgctcctc 240

accaccgccg tctccgccct caccgttctc caccccaccc tcaacgccac gctctccgac 300

tccccgggcc tcgcgctcgt gctcgccgtc ctgcccttca tcctgatgat cccattgtat 360

cattatcagc acaagcaccc acacaatttc gttttcctgg gtctgttcac gttgtgcttg 420

agc 423

<210> 36765
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G11

<400> 36765

cttttccgta cccaacttac gtcttagagt tagaggtcat cggcggcgga gatgcagccg 60

gtcgcggtgg cgttgtaccg tggcgcgcgc ggagatgaag gagaaggtgg aggcgtcggt 120

ggtggacctg gaggtcgaca ccggggagac gctgtacccg gggatctcgc gcggggagag 180

cgccctacga tggggcttcg tccgtatggt ctacggcatt ctcgctgcgc agctgctact 240

caccaccgtc gtctacggcc tcactcgtct ccagctcacc ctcaacgtca ctctcttcga 300

ctcctcgggc ctttcgctcg agctcgacgt gctgcccttc atcctgatga ttccattgta 360

ttattatcag ctcaagc 377

<210> 36766
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G12

<400> 36766

cttatctaca agcatgctgt gcctgttcct aagtctgagt gcagcaagac tacccagttg 60

ggtattagct ttgctggtgg ttacgttgcc ggtgtcttct gtgctattgt ttctcacccg 120

gctgacaacc ttgtgtcttt cctgaacaat gccaagggag ctacagtggg agatgctgtt 180

aagaagcttg gtctctgggg tctcttcact agaggacttc ctcttcgtat cgtcatgatt 240

ggtaccctta ctggtgctca gtggggaatt tacgatgcat tcaaagtgat ggttggactc 300

ccaacaacgg gaggtgttac acctgcccca gcagcagagg ctggattgaa agccagtgct 360

tgatttttt ttctgtgttc cctgagatca tatttggtag 400

<210> 36767
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G2

<400> 36767

cccacgcgtc cgttttttcg accacctttt tgctttcgac ttcaacctgt tgtatttcgg 60

tctggtcgta ttggaccttg taaacgctct tcaagaggag acccgtcggc tgacctacct 120

gtacgtgacg cagccacggt acacggtgta ctgtcagacg gagtccggcc agcacgagaa 180

ctccaacgat gagagccggc tgatgcgcgc cctgcggtgc gcctaccgcg gcacgtgcat 240

gtgcagcgaa cggtacacgc tcgagctagg cgtggaggcc gtccattcgt gggacgccta 300

cctggtgttc tacggccagt tgttcatcgt taacccggac ctggcggagc ggtttctact 360

<210> 36768
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G4

<400> 36768

cggacgcgtg ggtcttttaa ctcatgcttt tattttctga tctgttttga aatcaaacgg 60

gctttttttcc ttggttccgg cactaactta ctacaaggac tactccttga accaacattt 120

gatactcaac tctgtaccct taatactgct cacatatctt ccatttacca accaactaac 180

ataaaaaccc acccgcataa gaatctaccc taaacttacc attccatgac caaaacatcc 240

aattcgaaaa acaggcttat tactactaaa tcctaatgaa tgaccacgtc taaattttta 300

agagaat 307

<210> 36769
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G5

<400> 36769

tgaaatgcac catgaggctc tccaggaggt ccttcctggt gacaatgttg gcttcaatgt 60

taagaatgtt gctgtgaagg atctgaagcg tgggtatgtg gcctccaact ccaaggatga 120

ccctgccaag gaggctgcta gcttcacgtc ccaggtcatc atcatgaacc accctgggca 180

gattggcaac ggctatgccc cagtgctgga ctgccacacc tcgcacattg ctgtcaagtt 240

tgcggagctc attaccaaga ttgataggcg gtctggcaaa gagcttgaga aggagcccaa 300

attcctcaag aatggtgatg ctggtatggt gaagatggtt cccactaagc ccatggtagt 360

ggagaccttt t 371

<210> 36770
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G6

<400> 36770

ggtgttcctg gtccaccttg ccaccatctc cattactggc actggcatca acccagctag 60

gagccttggc gctgccatca tctacaacag ggatcacgcc tggaacgacc attggatctt 120

ctgggtcggc cccttcattg gcgctgctct ggctgccatc taccaccagg tgatcatcag 180

agccatcccg ttcaagagca ggtcttaagc tgccgtggcc gtgccgagac atgccagtcc 240

gaagaacggg cgtcttcctg tgatgtcttc ttgtctgccc acgcctagtt tctctgtcga 300

ttcctattcg tcgtctcttc agggctggtg ctcactgctg cgccgttctg ttaaccgaaa 360

caagaactct gtgtattcc 379

<210> 36771
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G7

<400> 36771

cagagagatt actacgatcc aacagttctt gagcaagaga gaggaagaca caccgcatag 60

ttagcaggct aataacttgc aggagcagca ggaatggcgg cgacacgtcg cctctcttgc 120

tttctcctcg ccgtgcttct ggcacgagtg gccgctggca ccgccttcga cgaaacggct 180

gctgccggct tcgggcttgg ccacggcgcg cgtttcgcgc gcaagcatgg acgtgctgcc 240

gctgagatgc cccagccgga gccacaacct aaaactaagc cggaacccca tatgcagcca 300

ctgtcccagg cagaacctaa acctgaacct atgccacatt cagagccaaa gcctgaac 358

<210> 36772
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G8

<400> 36772

gttcttcccc tccgatccga tgtccccatc tgcgctcccg tcggcgatca aacaccggat 60

cgcggcactc gccgccgttg aggaggaggt ttccggcgct gcttccagcg ccttgccgtc 120

agcaccatga ggaagaagct ggacacgcgt ttccccgctc ctcggattaa aaagatcatg 180

caaacagatg aagacgtcgg caagattgct caagctgtac ctgttctagt gtccaaagca 240

ttggagctat ttctgcaaga tttatgtgat aggacatatg atattacaat tcggaagggg 300

gtcaagactg tgggttcttc ccatttgaaa caatgcatac aaacgtacaa cgtctatgac 360

ttcttgaggg aagtagtcag 380

<210> 36773
<211> 76
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G9

<400> 36773

cttttgtact ccgttgaaac cccatctttt tttgtttcct tattgactct gaagcccgtt 60

gaaaccggcc attatt 76

<210> 36774
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H1

<400> 36774

cccacgcgtc cgcccacgcg tccggaacat attatcaagg gatttccaca attatccagc 60

tttgggtgga cttgtccaga cccttatggg ctatgtcgtt ggcggtgaca gttcaaattg 120

ggtaggagtg ctcggtttgc cccactacaa catggatgac atgcctggtg tgtcatttca 180

tgttgcgctt caccttgccc agataaagag ggcaaagaag ttccaaatgt atgactacgg 240

tagctctgca gcaaatattg aagcgtacgg aacaccggaa ccattggact tgggagctca 300

ttatggtctc attgacattc ctgtggactt agtcgctggg cagagggaca gagttatctc 360

accatccatg gtaaa 375

<210> 36775
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H10

<400> 36775

gctgcgactg ctgctacccg caatgtgaat gcctatgggc agaaggaaga gggacgaagc 60

cgctggcagg agaggaagaa agccaagagt cagatgtatc tgatgagtac agagaaggtt 120

gcgaagctgg gcactgtgaa gcaaaaagct tcagaaactt cttctgttgg cgcatatacc 180

caatgccaga agtgtttcca gcatggtcac tggacatatg agtgcaaaaa gagcgggtgt 240

acatatcacg gccctcaaga acgtagcagc ttaagaaccc caagctgaag aaatgcgtac 300

ctgtttctta tcgatttgag aatcctgatg gtgatcggcg atcgtgagct tccatgttat 360

gtgttgtgat acttgagact tttattatga ctatatatga gatattggct attattatga 420

ctggatgaaa tgtgcttatt atgact 446

<210> 36776
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-042-Q1-K1-F6

<400> 36776

caacgtgttc gacgccaact tcgacacgct ggtgtcggcg ctcaagaggg tcgggctcgg 60

ccacctgccg gtcatgatcg gcgaggtcgg ctggccgacg gacggcgaca ggcacgccac 120

ggcggccctc gcggagcgct tctacgcggg gctcctccag cggctcgcgg ccaggagagg 180

cacgccgctc cggcccggcg cgcgcatcga ggcctacctg ttcgggctcg tggacgagga 240

cgccaagagc gtggcgccgg gcaacttcga gcgccactgg ggaatcttca ccttcgacgg 300

gcggcccaag ttcccgctgg acctgcgcgg cgacgggcgg ccggcgatgc ccgtcccggc 360

ccggngcgtg gagtacc 377

<210> 36777
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E11

<400> 36777

gaggtgggtt ggcttctcct ccccctccgt ttcgggttcg ggttcgtgag gttctccggg 60

gttcggtttc gtgggtgagc ggatcgagat ggcggcgtcg gatgttgagt accgctgctt 120

cgtcggcggc ctcgcctggg ccacggacga ccactccctc cacaacgcct tcagcaccta 180

cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt cccgcggctt 240

cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg 300

caaggagctg gacggccgca acatcaccgt caacgaggcc cagtcccgcg gc 352

<210> 36778
<211> 274

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E12

<400> 36778

gtagttgcca tatgttcagt aatttttttcc tattaaattg tttatgtata gaaaattatg 60

cgagaaaaat ggaatggtta agatctttac aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaga aaaacaaaaa aaaaaaaaac aagacttaca gacacatgca agcaaataac 180

taaattataa aatgagctac cttaaattaa ttgactggcc atcgatatac aactgactga 240

caagaaaaaa cctgtacgta accaaattaa tcgg 274

<210> 36779
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E2

<400> 36779

gctcaagttc tcgcgctcac attcaaatat atgttcactc aatcgcggca taagctgcgg 60

tgcggccatg gacgccagcg gagccggtag caatggccaa taacggggca gttgggcgca 120

aggctggtgg ccccagcatg aagtccgagt cgcagaccgt caaggccagg ctacacatct 180

tcggcatgga catcgggctc tacctaatga acgggcggta cgtctcaagc gtgcacaccg 240

g 241

<210> 36780
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E3

<400> 36780

tggcattgcc cggcatgcaa aaatggactt tggtttattg actggtacaa agggctgcag 60

cctgtagtga gtcatgctag aacaaagggt tctacaaggg ttaaacttca cagggaattg 120

gctgcattgc tggaagagga gctttctcgc aggggaactt cagtgttacc agcgggtgaa 180

caatttggga aatggaaagg actgcaagaa agcactgatc gtgagatagt gtggccacca 240

atggttattg ttatgaatac cttcttggaa aaagatgaag atgataagtg gaagggcatg 300

ggaaaccaag agctccttga ttattttgga gaatatgaag caagtaaagc acgtcatgcc 360

tatggtccct ctgggc 376

<210> 36781
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E4

<400> 36781

ggagaaggag aaagagaagg agcgggcgct gcggcgcgag gagagggacc gcgaggagcg 60

ggagagttcc aggcggcgcg gggatgcgga tggagaggag gacgacgacc gggaccgcaa 120

gcggcgccgc cggtcctcgc accaccacca ccgggaccca gagccggagc cggagcctgc 180

atcccgggaa gaggaggagg tggacgccga ggaggctgag cgccggcgcc agcggaagaa 240

ggaggaggac atggaggccg agcagcagcg cctcgacgac gagatggagc gccggcgccg 300

gcgcgtcaag gagtggcagg agaagcgccg cgagcagcag cagcaggacg gcagtgttgc 360

cagtggcgct tctgctgct 379

<210> 36782
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E5

<400> 36782

cttgatcctc ctggaaatac aggacaccct gaagtcaccg ccggccgaga acaagacgat 60

gaagagggcg tcgatgatct cgatcctcgt cacgacattc ttctacctct gctgcggctg 120

cttgggctac gccgccttcg gcagcgacgc gccgggcaac ctccttaccg gcttcggctt 180

gtacggtccg tactggctca tcgacttcgc caacgcgtgc atcatcctcc acctgctggg 240

cgggtaccag gtgtacagcc agccgatatt ccagttcgcg gagcggctct tggcggagcg 300

gttcccggac agcgggttcg tgaacggcgg ctcctacacc gtccggttcg cgtgcctgcg 360

ggcgtgccgg gt 372

<210> 36783
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E6

<400> 36783

agcagaggca ccccgaagcg cggcagagta tcatgcggcg cggggatgca gactgagagg 60

aggacgacga ccgtgaccgc aaggctgcgc cggcctgacc tcgcaccacc accacacgga 120

cccagagccc gagccagagc ctgaatcccg ggaagagcag gatgtggacg ccgctgaggc 180

tgagcgcccg tgccagcgca agaaggagga ggacacgaag gccgcacaca agcgccatta 240

caacaagatg gagcgccagc gccggcgcgt taaggagtcg ccggagaagc gccccgagc 299

<210> 36784
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E7

<400> 36784

cccacgcgtc cgtccctata ttgcttcaat gggagtttac gtttttaaga gagatgtttt 60

gttagacctt ctaaagtcac ggtatgctga actgcatgac tttggttctg aaattctgcc 120

caaggctttg catgagcaca atgtacaggc atatgttttc actgactact gggaggacat 180

tggaacaatc agatctttct ttgatgcaaa catggccctc tgcgagcagc ctccaaagtt 240

cgagttttac gatccgaaaa caccattctt cacttccccc cggtacttgc caccaacgaa 300

gtcggataag tgcaggatta aagacgcgat catttcacac ggctgcttct tgcgtgagtg 360

tgccatcgac 370

<210> 36785
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E8

<400> 36785

aaaggagaat ggtgcatgca agggttgctc tcatcaaccg tagcagtgga aggaaggaag 60

ccaccgtcgg gcttggctta tgctaggcag tgtttctttg gtattgctcc tcatagtctt 120

tcccaatctg aaagtgattc tcttttaaaa attccatctg atgatgattc caacc 175

<210> 36786
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E9

<400> 36786

ccttctcgcg ctctcgagat tcttcccact ttcacactga agattcccgc cgcctcccct 60

gtgtcggcgc tgctgccagc gctagcaccg atgccacctt gtcttgcctc tttccatcca 120

ccgtcatcgc cgctacctat ggcttccacg tcgggccgtc tcttgcctca tcctgttccc 180

cgccgctgct ctcgccaccc actatcggag gcattgtgtc cagcaacatg gttaagaggg 240

tatgctgtct gagcgccagg gagatccgaa cggtgatgcc ctctactcgc ttcccattgt 300

cagtggggct gccatagttg gagagtggcg gcgtagcatg ccgacgactg cgagttcctc 360

aacatgtact ccggtaccaa gcaat 385

<210> 36787
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F1

<400> 36787

cggacgcgtg ggcggacgcg tgggtgcagg gcggtatcgc gagcagcccc ggcaccactt 60

tcaaggtatc ggatgcggag atattcctgt tctccggcat gggagcggcg gagtctctga 120

ggccaagctc ctgctccagc aacgggaagg atgatgaccc tactcacgca gacgcagact 180

gcgccgagaa ccgtggatcg tcggagaaga ggctgagctc cgcgagccgg gccaaagacc 240

gcctcaagat gatgctgaga tggcctcgcc acaaggacaa gacgcccaag aagtcagagg 300

acagcagccc gctggggtcg atcagcaggc tgaacgagca cggggccgag acccctgctc 360

cgctgaggca ga 372

<210> 36788
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F10

<400> 36788

ccggccttcc ccctctcgtc acttatggtg cccagccgct cgctgcgcaa ctactagcgc 60

accgtcccct cctcagccat ggccgcggcg tcgttcgccc gcgccttatg tctccacatg 120

ctcctcctct tcctcgtggt tggctcggcg cgctgcaaga cggtgaagag agacgtgaaa 180

gcattgaatg agatcaaatc ttcactaggc tggagagttg tatactcatg ggtcggtgat 240

gatccttgtg ggcatggtga tctacccccc tggtctggtg tgacatgttc tcagcaaggg 300

gattacagag ttgtgacgga actggaagtc tatgctgtat caatagttgg ccctttccca 360

acagcagt 368

<210> 36789
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F11

<400> 36789

cggacgcgtg ggcacacata tatttgtatt tatacataat aagtatttct ttttttgtg 60

tgaattctgg aacggtattg acaagcatgg tcgagacacc catgtctcac atcatatgaa 120

catgtcggtg attgatttga gctactgatg gtttattcac ttaagcaatc tttcttgtga 180

gtgtagagct tgagaatact tagctcatta ttcttgtctt tttttgggca ggattcaaac 240

aaaccagtac attaccacca tggttcttga ttcattatca tcacctcaca ggaggtccca 300

aaacacattc ttcgtgtcat ctgcaaaaaa gcctcagtca tctcgtgacg acagttggtc 360

tgcactgggt gagcgacacc ggtttcttct gacgacactt cctg 404

<210> 36790
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F12

<400> 36790

cggacgcgtg ggcggacgcg tgggggggctt aattaggcgg aaagattata attgacaaca 60

ttgacatctc tgcaattggc cttcatgatc tgcggtcacg gttgagcatc attccccaag 120

accctacatt atttgagggt actatcagaa tgaaccttga tcctcttgaa gagtgcactg 180

atcaagaaat ttgggaggca ctagaaaagt gtcagctagg agaggtcatt cgttccaagg 240

aagagaaact tgacagtcca gtgctagaaa acggggataa ctggagcgtg ggacagcgcc 300

aacttattgc actgggtagg gcgctgctca agcaggcaaa aattttggta ctcgatgagg 360

cgacagcatc tgttgacaca gcaacagaca atctta 396

<210> 36791
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F2

<400> 36791

caaggataag gacacaaagg agaacaaggg gttcgccttt gtcaccttca tggacaagga 60

ggctgcgcag cgcgccatcg aggatgtgca agacagggag ttcaagggga ggactttgcg 120

gtgctctctg tcgcaggcaa agcacaggct gtttgttggg aatgtgccca aggggctgag 180

cgaggaggag cttaccaaca ctatcaaggg gaagggtcca ggtgttatca acattgagat 240

gtttaaggat cagcatgacc caaaccgtaa ccgtggcttc ctctttgttg agtattacaa 300

ccatgcctgc gcagactatg ccaggcagaa actttcatct ccaaacttca aggttgatgg 360

gagccagttg actgttagtt ggg 383

<210> 36792
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F3

<400> 36792

cccacgcgtc cgccgcaccc tttcatcatt ctgcctgtcc actgttggct tggtgacttg 60

ctccgctccg ctcccctccg ctcccgaacg gtcgatcttt gcatggcagc agcagctggc 120

tccaaggggc gggcgatcgc tggaagcttc gtcagccgcg tcctcgccgg caaggccgcc 180

tcgccgagga gggccgtgca cgcctcggcg tacgacaaga acctggagga acaggtgcgc 240

ccggcgttcg tgccggacga tgtgatcggc agcgccggga gccccgacaa gtactggagc 300

ccccacccca agaccggcgt gttcggcccg gcggcggtgg accccaagct ggcagctggt 360

ggcgcgc 367

<210> 36793
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F4

<400> 36793

cggaccaccg gtgacctacc cgccgatcac cggccctcca acaacgccgc ctgttgtcgg 60

cccaccggtg acctacccac cgatcactgg cccgcctgcg acgacgcccc cggtcaccgg 120

tccgcccgtg acctaccctc ccggcggagg cgggggaagc tcgacgccgt gcccgccgcc 180

accgagcccg acgccgacgc cgtcgtcgcc tacgtgcccg gctgactcgc tgaagctggg 240

cgcgtgcgtg gacctgctgg gcgggctggt gcatatcggc ctcggcgacc ccgtggtgaa 300

caagtgctgc ccggtgctgg aggggctggt ggagctggag gcggccgtgt gcctctgcac 360

caccatcaag ctc 373

<210> 36794
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F5

<400> 36794

tgctcttcag gcagcatcgg ccttggcact tgaggttggt gacaaagctt ctgaaaagct 60

tttttgggac aaatatgaga aggccaagtt tgtctatagc aagctgtgga acggttctta 120

cttcagttat gatgatggcg acaacaaaat gagcacatct atccaagcag atcaattggc 180

tggacaatgg tatgccaaag cctgtggtct cttcccaatt gttgacaaag acaaggcaca 240

aagtgcgcta gagaagatat attctttcaa tgtgatgaag ttcaagggtg gtacaagggg 300

agccatgaat gggatgtggc cagatggcac tgtggacatg tctgcaatgc aatctaggga 360

gatatggcca g 371

<210> 36795
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E1

<400> 36795

gctcaagttc tcgcgcccac agccaaattt ttctccactc aatcgcggca taagctgcac 60

tgcagccatg gacgccagcg gagccggtag caaggcgaag aaggggggcgg ctgggcgcaa 120

ggctggcggc cccaggaaga agtcggtgtc gcggtccgtc aaggccgggc tgcagttccc 180

cgtcggccgg atcgggcgct acctcaagaa ggggcggtac gcgcagcgcg tgggcaccgg 240

cgcccccgtc tatctcgccg ccgtgcttga gtacctcgcc gccgaggtgc tggagctggc 300

cgggaacgcg gcgaaggaca acaagaagac gcgcatcgtc ccgcgacact tgctcctggc 360

gattcgtaac gacgttg 377

<210> 36796
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C2

<400> 36796

cgcatgacag tttcctggga attgacctgt ctagtgatgg tcatacactt gtatcgtact 60

cccagctctc aaactgggac aagtgctcct catgggaggg cttcaaggtg tcaccattca 120

ccgcaggagc gaggacattc agcttcgatg caaatccatg cgattacttc cagggtggca 180

agattaaagc aacgaccctc tccctgtcag tcttggtggc cattgagatg ttcaactcac 240

tgaatgccct gtcagaggac ggcagccttg tgagcatgcc accatgggtt aatccgtggc 300

ttcttctggc catgtcggtt tctttcgggc tgcatttctt gatcctctac gtgcctttcc 360

tcgctcaagt gtttggg 377

<210> 36797
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C4

<400> 36797

ccaggaggcc gtctgggacg ctgacattgt cgtcaacggc ctgccttcca ccgacaccag 60

ggaggtgttc ggggagatca ggaggtactg gaaggagagg attactgccc ccatcatcat 120

ctccctcgcc aaaggaattg aggcctcgct ggatccactc ccacggatca taactcccac 180

gcagatgatt agcaatgcaa ctggagttcc atcagagaat attctttatc ttggcggacc 240

taatattgct tctgaaattt acaacaaaga atatgcaaat gcacgtattt gtggagctga 300

caaatggaga aagccccttg caaagttttt gaggcagcct cattttattg tgtgggataa 360

cagtgatctc atcactca 378

<210> 36798
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C5

<400> 36798

gccaaagaat tccctcccct agccgccgtt gccgctcgtc tccctgagag gtgccgggac 60

cgaggatttg gccgagttct aggtagagaa tcggttttac ttgtctcagc ccggggtctg 120

ctgcgtctgg tggtggtgaa ggggagaaat tcgtgagatc tgttccggat caggcgtgcg 180

agctcgggaa tcaggggttt cacacatagc ttcgtcgatt tgaatttgat gtactaatgg 240

agtctaaggg tggcaaaaag tctagcagta gtcgttctat gatgtatgaa gctccccttg 300

gctacagcat tgaggacgtt cgacctgccg gaggcgtgaa gaagttccag tctgctgctt 360

actccaactg 370

<210> 36799
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C6

<400> 36799

cccacgcgtc cggcggggcg atcatctggt acaagccgga gtggaaggtc atcgacctca 60

tctgcacgct cgtcttctcg gtggtggtgc tgttcaccac gatccggatg ctgcgcagca 120

tcctcgaagt gttgatggag agcacgcccc gcgagatcga cgccaccagg ctggagagcg 180

ggctctgcgg gatggagggc gtggtggccg tccacgagct gcacatctgg gccatcacgg 240

tgggcaaggt gctgctggcg tgccatgtga ccatcgccag ggatgcggac gctgatgaga 300

tccttgacaa ggtgatcggg tacatcaaga cggagtacaa catcagccat gtgaccatcc 360

aggtcgagcg cg 372

<210> 36800
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C7

<400> 36800

cccacgcgtc cgctaaatca tggtgaactt tttgagaaaa ataactggtt acccgagggg 60

cctattacca ttggtgttac ttcaggtgcc tcaactccag ataaggttgt tgaggatgct 120

cttcagaagg tatttgagat caagcgtcag gaaattttgc aggttgcata aattttaagc 180

agagatttgg tgaagagctg aatagttttg gcttggcaaa ggttactaga aacgttgcac 240

aggcaaatgt ttgtacagta gctaaggatg taacgagttg ggcacgaata ctaccacgag 300

tcactatcct tgtgctggaa tttacagtac ggtggaaact aaaatggtgt aagtttctag 360

tacacgagtc ac 372

<210> 36801
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-042-Q1-K1-C8

<400> 36801

gcgagcaaca gcagcgaggt ttaccccaat tccccatttc ccgtagcacg gcagacgcgc 60

tcccttctga tttctgaatc cccgacgcca tggcctccgc accgacgccg ccgcccctcc 120

tcccggtgac caaccctgcg tccggatcgt ccccggccgc cgccggaggc tccgatgcgc 180

cgatcgctac gccggctttc cggctcttcc tgagccggat ctccgactcg gcgcggcgct 240

cgctgtcgga tcgccggccg tggggagagc tcctcgaccg ttcggcgttc tcgaagccag 300

actctctctc cgacgccacc tcccgcctgc gtcgcaacct cgcttacttc cgcgtcaact 360

acgccgncgt ggt 373

<210> 36802
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D1

<400> 36802

attagctgag aagctggctg cagtcaggag ttcatagggc ggcacatcac tggatgccgc 60

tgacaaagtt tgagtcttct atgcaacgaa caacgagctg tgcggtgcag tttgtgattt 120

cctggcaatt cgtttctatg tgatttcacc agccccagcc tcaccgccga gtgcttcatt 180

ttttttatgg tttctcatcc taatcatcat cgggaaccaa ctaatgaagc actgcgcgcc 240

cattttcccc atggtttctc tgtaatcaac tagaagtgat caagtaccaa gcagtgtaca 300

atgcgatgct ccctaggac 319

<210> 36803
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-042-Q1-K1-D10

<400> 36803

cccacgcgtc cgcggacgcg tgggcgaggt gctaccgcat cgccggcggc ccgctcggcg 60

aggtcgtcga cccgctctac cccggcggca gcttcgaccc gctcggcctc gccgacgacc 120

ccgaggcctt cgccgagctc aaggtcaagg agctcaagaa cggccgcctc gccatgttct 180

ccatgttcgg attcttcgtc caggccatcg tcaccgggaa gggcccgctc gagaacctcg 240

ctgaccacat tgccgacccc gtcaacaaca acgcttgggc ctacgccacc aacttcgtcc 300

ccggcaagtg agggaggcgc cgncggtgac ctttaggtgt ccggatgcat gtgagcgcac 360

gctggttttc ggtttggacc atgatgtaaa ctatgggtca atcgac 406

<210> 36804
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D11

<400> 36804

attcgcggga gcccagatgt gaaatgggat agcatcaaag gactggaaaa tgcaaaacgc 60

cttctaaaag aggctgttgt catgcccata aagtacccaa aatacttcac tggtctcctt 120

tctccatgga aaggcatctt actttttggc cccccaggga caggaaagac aatgctggca 180

aaagcggtcg ctactgagtg caaaaccacc ttcttcaaca tttcagcatc atcaattgtc 240

agcaaatggc gtggagattc agagaagctt gtcaaagttc tgtttgagct tgctaggcat 300

catgcaccat ccacaatatt ccttgatgaa atagatgcta tcatcagcca gcgtggtgaa 360

gctcgcagtg agcatgaagc tagtcgtcgc ttgaagactg agctacttat tc 412

<210> 36805
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D2

<400> 36805

ccacgcgtcc ggctcgctcg tcccagctgt atcaggtcga gcacctagta gcgacctgct 60

cgatcatcag tgtagagtgt cggtaggtgt ctgtctctct tggtggctgg ttgcaacggt 120

catggcgacg tcgtctcgtc gggtgccctt gctgctgctg tccctgggcg tgctggtgtc 180

ctgctccttc gcggcgggca gcttggacca ggagctggac atcacgtggg gcgacgggcg 240

gggcaaggtc cttgacaacg ggcggctgct gacgctgtcg ctggaccgca cgtccggctc 300

cgggttccag tcccggcacg agtacctgtt cggcaagatc gacatgcagc tgcggctggt 360

gccgggcaac 370

<210> 36806
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D3

<400> 36806

cacgagcgat tgcggcggcg gaagtaagat gcgatggggc actccaacgt gtggaactcg 60

caccccaaga actacgggcc cggatcccgc gtctgccggg tctgtgcgaa ccctcatgga 120

ctgatcagga agtacgggct gatgtgctgc aggcagtgct tccgcagcaa cgccaaggac 180

attggcttca tcaagtaccg ctgaagtcag ctgggcgggc tatctgaatg ccatctcttg 240

gacagtgtag tagaggcgat gccacaattt taattactgt catttagatg ttcccttcag 300

aactctgcta tttaagtccg ccatgtttgt gatggagaac tgaagctttg tttgttatac 360

tgattatgag ttacct 376

<210> 36807
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D4

<400> 36807

cggacgcgtg ggtcccacta tgcgtcccat gccacctcgc gtccatgatc gaagccggca 60

agcggctgct cggcagaagc cgctgcccca tgtccctcac cgtgctcatc acgcagatga 120

ccatgtccgc caacctgatg tccgacgtcg acgacatcat gcgacgggaa gccgactccg 180

gcctggacat ccgcttcgtc cacctccccg ccgtggagct ccccaccgtc caccacggcc 240

tcgaggactt catgatgcgc ttcatacagc tccacgcgac gcacgtcaag gaggccgtct 300

ccggcatgtc gtccccggtc gccgcggtcg tggtggacta cttctgcacc accctgttcg 360

acgtcgcgcg cgagct 376

<210> 36808
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D5

<400> 36808

ggcttctcct cccccaccgg ttcgtgtttt tgttctggtt cgtgggcgag agggaagaga 60

tggcggcgtc ggacgttgag taccgttgct tcgttggcgg cctcgcctgg gccaccgacg 120

accactccct caacaacgcc ttcagcacct acggcgaggt cctcgagtcg aagatcatcc 180

tggatcggga gacgcagagg tcccgcggct tcggcttcgt caccttctcc acggaggacg 240

cgatgcgcag cgccatcgag ggcatgaacg gcaaggagct cgacggccgc aacatcaccg 300

ttaacgaggc ccagtcccgc ggcggccgtg gaggcggcgg tggcggatac ggtggcgggc 360

gccgtgatgg 370

<210> 36809
<211> 66
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D7

<400> 36809

tcgcattgtc acagacgagt cgacagttat gttggacgga acgtcgcctg aggtaggggc 60

gggcca 66

<210> 36810
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D8

<400> 36810

tctttttcc cactatttgt ccctttcctt ttcttgtcca tgatcgaaaa ccgcgagcgg 60

cttctcttca gaaaacgctg tcccatattc ctcaccgcgc tcataacaca catgaccatg 120

ttcgccaaac cgatgttcca cagtcgacga catcatgcga cag 163

<210> 36811
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C12

<400> 36811

gagcaatcta agggacatga taaaggtgat tcatggtgtc taggcaccac ataaacatat 60

ctgtgattat gatggaccct ttaatataga acaaaagttt tggctcattt gagctaccag 120

cgtaccagta ggcaattcga tttgttacca gcaacaagtg atctgattcc cagtggtcct 180

gctagagtaa catttttac cactgtctgt tgtctatgta tcctttgata ttgtgttgta 240

ccaatgtgca atttactcta tggactgatg gaacattgtg ccatcccatc caccagattt 300

attgtggcgt tatggaaagc atagaaccgc tgccatattc ttt 343

<210> 36812
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D9

<400> 36812

tgcgtgtcct cctactctac ccctcactgt gtcgcatcca catacgccaa tttcgtcacc 60

gcctcgtcct ccttctcctc gcccctgtgc ctcgacatct cgcatccgct ccatctatgg 120

aaggccacca cgcgccatgg atcgccggtc tctaccgcca cctcaattga agggtcaccg 180

gtctctacgt ggatccggca ccttcttc 208

<210> 36813
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A8

<400> 36813

cttgttcctg cattgcaggt ggaaggagct acggtgctca cagcgctgca ttaggagatg 60

aggtgtcttc ctccgtctcc aggcctggac tgggggcaac tgtacatggt gcctggtggt 120

gtaatgtaac ataacggcaa tggcatatgc agctgatcct ggtctgcctg tatcatctcc 180

tcccacccgt aaagagaagt tctttctgcc gccatcgcca tggtcagtca gagcttctct 240

gctatagctg ctggatgtgt tgtgtgttgc gtctgtatcg tccctactcc ctagtttgtt 300

cgacttacat ggaaacctga gaccagaccg ggtatcgagc ggctgcttgc agggatggag 360

tgctgtaatg 370

<210> 36814
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A9

<400> 36814

accacgcgta cgccctttcg tgcgaccatt tgtcctttta cacgatgcaa agaagatggg 60

tgtaccttct atggccacat ctctgatgtc actcataaga gtatggccct tagatgctga 120

cgaactttag ctctataatc cataaaacat ggcctaacac cctaaacgaa tcagcctgac 180

gaaccacaag catctgacct gctacgtatc cgatccaggc ccctaagtgc aactcactgt 240

<210> 36815
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B1

<400> 36815

cggacgcgtg ggctcgggtg caagcgcgcg cgcggtcggc ttcgccacgg tggtggcgtt 60

ggcgggcgcg ggcctcgccg tcctgcttta aaaactagac tccgactctt cctcctgtcc 120

tcacgccgat gttgtcaccc cctccccgtg cctcgacgtt gctgctcgct ccatttcagt 180

ttcatctttt ttttttttcc tttggtgttg ttatttaatt ttaccggccc tacgatcgat 240

tcttgatgta cacgatgatg atgcattggt tgctttggat ccgcgggcgg gtggtggtta 300

gtgttctgcc cgcgggtgtc gccatgtact tttaccgcac tacattttgg ttctatagag 360

agaggatttg tgt 373

<210> 36816
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B10

<400> 36816

tcctcttctc cctctcctcc tcctcctcct tctcgtcccc cttcctcggg ttggaaattg 60

gaatggaggc ggcgacgatg gcgtggacgg cggcggtggt cggggcgggg ctggtgtact 120

ggttcgtgtg ggtgatgggc gcggcggagg tgaagggcaa gcgggcggtg gatctcaaga 180

tgggatccat cacgcgggac aaggtgcagg acaagtacac ccagtactgg tccttcttcc 240

gccggcccaa ggagacggca accacggcgg cgtcggcgga gaaggtgccg gccttcgtgg 300

acaccttcta caacctggtg acggacatct acgagtgggg ctggggccag tcgttccac 359

<210> 36817
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B11

<400> 36817

ccttaccaac agatcccaca agcatacggt taccgtcaaa tgcctgcaag gttggacagt 60

accaacccat cgcaggccat gggaggttac acgctgcagt cgcagaaggc ctatgcttgt 120

gcaaacggca aaggctcgcc tgatgtggcc gtgaacatga gagctccccc cttccatctc 180

ccagctggac caaagaagaa cccattagat aggatagcac ctgacaccac cgacatatac 240

acaagatccc tgaacggcat cgtcgccgcc gccgctgcat cagtgggcgc tggcgctggt 300

actcaccgaa acatcggcgt tgtgccatct ggcatgtcaa ggatgtatta gctgctgctg 360

aaatgct 367

<210> 36818
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B12

<400> 36818

acgaataatc tcttcttcac ctcactaaca tcagctatca actctttctc tcctgcaata 60

atggccgctc gctcctcctc ctcccagccg cagctggtcg cggcggcggc ggtcctggca 120

gcggcgctgc tgctgctggc ggcgggggcc gggacggcgt cggcggcggt gagctgcggc 180

gaggtgacgt cgtcggtggc gccgtgcctc gggtacgcga tgggcagcgc ggcgtcgccc 240

tccgcggcgt gctgcagcgg ggtgcgctcg ctcaacagcc gcgcgtcgtc ggcggcggac 300

cggcaggcca cctgcaactg cctcaagagc atgactggcc ggctcggcgg cggcgtcagc 360

a 361

<210> 36819
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B2

<400> 36819

gcagcttctg cttgctctgg ggggaaggtt agagagagag agcgagagag agatctagta 60

gagaggctag taggtggtcc tcgaacgaag atgttggcgg tgttcagcgg gcaggtggtg 120

gaggtgccgg cggagctggt ggcggcgggc agccggacgc cgtcgcccaa gacgaaggcg 180

tcgcagctgg tggggcgctt cctggccgcg tccgagccgg ccgtgtccgt gcagctcggc 240

gaccacggcc acctcgccta ctcccacacc aaccaggcgc tcctccgccc caggtcgttc 300

gcggccaagg acgaggtgtt ctgcctgttc gaggggggtgc tggacaacct gggtcgtctg 360

agccagcagc acgggct 377

<210> 36820
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B3

<400> 36820

gaaccttcat agtcatagac tcataggtac taatgttacc tgtctggaca gtggatgggg 60

accatagatc ctttgccact cattcttagt tataactaaa aatgcttcaa attaaatcaa 120

atcgtcttcc attttttttct ctctctggta ttaattcaag caactgtata atgcttttgc 180

ctggtagatc taattaaacc aaatctctgc ttataattct ctgattggga tcttaactta 240

caatcaacta acctagactt gtcagctcca gttcatgctg ctttccattc catcagtaat 300

gtagcatgca tcagtactgt aatcaatcga tggacgaata attgtgcttc attgttgtag 360

tgactaatca aat 373

<210> 36821
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B4

<400> 36821

ggccctgctc ctctgcagga tatggcaagg caaattgcta cagccaatgg ccctactggc 60

tataataggg attacctgtt ctcaatggag aaggcattag ccagcattag ccacgaagat 120

gattcgatca tagagcttgc aaacgaggtg aggaaggtgc tcaacagaac aaaggagacc 180

aagatcactg gtgccaatgc ttccctgaaa tcacatgccc ctcttgtgca cctgtccgcg 240

cttccagaag gcaccgctgt ggactcgaga tagcgagagc cttggacgtt ggacctctac 300

tcggaattta cttccagctc ttgcatgttt gtggccaaaa aaaaaaaatt aaatttaaaa 360

aaataa 366

<210> 36822
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B5

<400> 36822

gccacgcgtg ctgcctgctt gatgtgcgat ttggccagca accaatggca ggagctgccc 60

aagtacgtca atgccgacgg cgaggccagc gagttactgg gcggcttgtc cttacagccc 120

acagtggagg tcaccggata agcgcttatg gctatagcgt tactaccatt aattgcttca 180

tacattaagg cgcattaatt acgggtggga tactactccg agtgaatgat ttcttcgagt 240

gtgtgagcat gtacttactg ctgtcatgtc atatgacatt gacattattg gtcttgaata 300

aaatcacaga tactgtgcgc atgactactg cactgaactg gcggtcgctc tac 353

<210> 36823
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B6

<400> 36823

cggacgcgtg ggttcgccgt ggtcttgctt aggctgggag agcttgaaga gaaggtccag 60

atgcttcaag aaaagccttc tgaaatgcct tgcgagaaag aagagttgct taacgctgct 120

gtgcgtcgtg tggatgcatt ggaagctgaa ctaattgtaa caaagaaggc tttgcacgag 180

gctcttatca ggcaagagga actgctcgcg aacatcgaca gcaaggagat tgccagggct 240

cagagaaaga agaaaacaat gttctgctac taggacaaca cctgcttccg tgaggagatg 300

acaaacgcgg cggacccctt cattttctg acacttgtga atcaacaggt ttccgttgta 360

aatcaacaaa att 373

<210> 36824
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-042-Q1-K1-B7

<400> 36824

ctgtcacaca cacacacaca gacaagtggt ttccaaagcc aagtgtgtgt actagcaacc 60

agctagctcg ggcggcagca ggcagccatc atgtcggagg agaagcacca ccacttcttc 120

aaccaccaca agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag 180

gtggtcaccg ccaccggcga gggcgagtac gagaggtaca agaaggagga gaaggagcac 240

aagcacaagc agcacctcgg cgaggccggc gccatcgccg ncggcgcctt cgcactctac 300

gagaagcacg aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaggag 360

gtcgctgccg c 371

<210> 36825
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B8

<400> 36825

cggacgcgtg ggcggacgcg tgggattgct catagaaggc ccagatttca gaaccaagag 60

tgaagaagag cttactcaac tgataccaaa gatacaggtg atggcaagat cttcgccact 120

ggataagcat acccttgtca agcatcttcg aactaaactc tacgaagttg tggctgtgac 180

tggtgacgga acaaacgatg cacctgctct tcatgaggct gatattgggc ttgcaatggg 240

cattgctgga accgaggtgg ccaaagagag tgctgacgtc atcattcttg atgacaactt 300

ctccactatt gtcactgttg caaaatgggg tcgatcagtt tacatcaaca ttcagaagtt 360

tgtgcagttt cagc 374

<210> 36826
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B9

<400> 36826

cccacgcgtc cgcccacgcg tccgcccacg tttccggtgt ctagatattt tcttggtgtc 60

tggccctggt atggccattg ttggcaaacc aaaatttaga ttagagctct catttggtca 120

catagttcat cttgatgatc aataagccaa aaccttggcc acaaaagtga tgcccctgat 180

tatggtaatg ttttgggggg gggggggggc atgccctact cagactaatc ccacaaatga 240

tgcctggaat cggtcagctt acagtcattc tgggagtgat cgatgaaatt aggaattgcc 300

actatgcttt atacattgct taccattgag ccaaatgcat ctagagtgat gcttgagcct 360

ttat 364

<210> 36827
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C1

<400> 36827

cggacgcgtg ggcacaaacc agcagcaggc agagcaacga ctagctgcca ggcaagccgg 60

ccgggggtgc tgcaagagtg caacaaacaa tggccaccgc gctctccttc aaggccttgg 120

cactggccgc gctcctctcc atggtcgtcg cctctggcgc tcgcgccgag caacagttca 180

agcgcaacgc caccaccgcc tcgcaggaca gatccttgtt gtcctacagc agtggctggc 240

tgccggccaa ggccacctgg tacggcgccc ccaccggcgc cggccccctc gacaacggtg 300

gtgcgtgcgg gttcaagggc accaaccagt acccgttctc gtccatgacg tcctgtggca 360

acgagcccat c 371

<210> 36828
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C10

<400> 36828

aaggaattac caagcgcaaa aagaacaagc gtgagtggga tgagcaaact caatcctgga 60

agcggactca tggctatgac cgtgttaatg atgacaaaga cattccaatc attgaagcca 120

aattgactga cgagcctggt gttgatccat ttgcgcaaag aagggatgag aagaagaaga 180

gggttgaaaa gcaagaaaaa aacagactgg ataacttaaa gaaagctgca aaggttggcg 240

ctttgccaag tcatatacag cttgctgcga aggcgttgcc catcacagga acaaaagctg 300

accttccaaa aaaatctaga aaagaggatc ttgagagtgt tgtcggcatg gcttcatcag 360

caacagcaag tggtgggaag tttgatg 387

<210> 36829
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A7

<400> 36829

cggacgcgtg ggcggacgcg tggtctcctt gcgccgctgc cgcatctcct ctacaggtga 60

gaaggagaga aagagggcga aatggtgaag cacaacaacg tcatccccaa cgggcacttc 120

aagaagcact ggcagaacta tgtcaagaca tggttcaacc agcccgcccg caagcagagg 180

cgccgcatcg cacgtcaaaa gaaggctgtg aagatattcc cacgaccaac tgctggccct 240

cttcgtccca ttgttcaatg ccagactctc aagtacaaca tgaagtcaag ggctgggaga 300

ggctttaccc ttgaggagtt gaaagctgcg ggcattccaa aaaggcttgc tccaaccatt 360

ggcatttctg tggat 375

<210> 36830
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-042-Q1-K1-C11

<400> 36830

cgagcctccg caagtggtat gggttcgatt tcccttgcat cgagaggagc aactgggcca 60

cgtcctcgtc ggctgggctg gtgtgcctga tggacagcga gaacaggcgc agcgtcctgg 120

tgtgcaaccc catcactaag gactggaaga ggcttcctga tgctcctgct gttgggggca 180

ggacagctga ttacagtggc ctcgccttct ccgtggacag aagcactcat cgctacaccg 240

tggccgttgc aaggagcagc caggttccat ccgagtatta ccagtgggag ttcagcatcc 300

acttgtacga ctcggtgtct ggcacctggg cgactccctt cacggnggtg ttgcttgggt 360

ggagaggcgg cgacgagtgc gtc 383

<210> 36831
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G7

<400> 36831

tcggtcagtt ctgctgctag ctacagacaa cggtttttat attgcactca tgtcaggacg 60

cacggcatat acacagcagt cttataaata cagtgattcc tttccattta agccaatata 120

caacaattgg agagcaagct tccatgtaac tgcgatgtca acatcatcca atcgatcggc 180

tatattcatg tcccgaaata ctggattatc tgaacacttt gttgagttcg acttcttgta 240

cccaaccgag ggtatccata gacgcttaga caatggctta cgtattactg caa 293

<210> 36832
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G8

<400> 36832

cccacgcgtc cgggaaaaaa aaaaaaaaat taaaaaaaaa aaaaaaaaaa aaaggaaaaa 60

agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaggg cggcagtttt taaggtttaa agtttactta cccgtgattt caagatattt 180

gtttttttat agtgtaacta aatttaaatt aactggcctt ctttttaaat cgttttgact 240

ggaaaaacct tggcgttacc aaatttaatc gctttgaaga aaataccctt ttcgccagtt 300

ggctttttag cgaaaaggcc cgaacatatg gcctttccaa aaat 344

<210> 36833
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G9

<400> 36833

cccacgcgtt cgcccactcg tcctaaaaaa taaaaaataa aaaaaaaaaa ataaaaaaat 60

ttgaaaaaaa aaaaaaaaaa ataaatatac acattactga aataaaaaat taatagtaaa 120

aattatattc aatatcaaaa tttatggtct gacaaattac attttaagct tttcctattg 180

<210> 36834
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-H1

<400> 36834

accacgcgtg cgcccacgcg tccgatgaag cagctcactt ttatggttgg cctggtagtg 60

gacggtcagc aatatatggg aggcatggta ggatggcata cccaagagct gttatccctg 120

gtggttcctt tagagggcgt gctccgatga aagctggtgc tagaagttta cagtggaaac 180

gggagccttc aggcactgat tcaagtgcag gtgcgaaaac tgacatgagt gtggcatttt 240

cctctgaaca ggtgcttcca cgtgcaacat atgggagtat gttaccgctg agctgatata 300

atgagaacca agtggtatcc cactcgtcgc tcctggccct aatggctgaa tatggacagc 360

aagctgagaa gattggtcct tcctgctgca ctgtaaaaga aaagtaccaa aaaaatgaaa 420

aatttaaaat ctatacacga gattctggg 449

<210> 36835
<211> 354
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-H10

<400> 36835

cccacgcgtc cggtaaaaag gagtacccgg tgaaggtgag cggagtgcag atcgtgcccg 60

atccggtcga gcccggcaag cccgccactt tcaagatctc cgcttctact gataaaacca 120

tcgagaaggg gaagctggtg atcgacgtca agtacttctt cttctacgtg cactcggaga 180

cgcgcgacat ctgcggagag atctcctgtc cggcgaccgg cgacttcgtg ctgtcccacg 240

agcagacgtt gccagggttc actccaccgg ggtcgtacac gatctacatg aagatggtcg 300

gggacgacga cgaagagctg agctgcatct cgntcggctt cagcattggg ttcg 354

<210> 36836
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-H12

<400> 36836

ggaaaagaaa agagggctaa aaacctagca ttcccctgct cgccgatgct gtgggacgat 60

gcaaccatgg gcgcaggggg caccagccac ttatgatacc ccgagtcaca gcactagggc 120

tactgaagcc gatgtgagtg caaggcgatg cagacgcata cttagaacca gggtattgga 180

ccggccgcct ctgagatcaa agttgaatga ggactagatg cg 222

<210> 36837
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-H2

<400> 36837

agccaagttt cgcgtgcttg tgccctcact cgatgcagag tatgctgctc ggattcagtg 60

ggcgctgaga gggtcccagg catacaacag ttagagcgtt ttaacatgtt gcgtgtgttg 120

ccagactgat gcattgcggt ttgttttcga tagtgagtta tatgtgcgga ggcgcagtcc 180

tgtataactg agacatgatg acctaacaag cagctcgtat ctgtttttta tacataatgc 240

ctactatgga 250

<210> 36838
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-H5

<400> 36838

gttcttcttc ttcctcaagc tgtagcctgt gggaggagag gccggagagg cctcccatgg 60

agttccccca ctcatcactt cttgttggtc ccctgctagc tgttcgttcc ctcagcaggt 120

agctagagat gatcttgctt taatttttgtg ctgatctctt cctcgtcgtg tacgctcata 180

tgcatggggc gacggatttg tctctgatcg ttcccatgcc gcctcttgta tcttgacttg 240

gatctatata tcaatgcaaa taaatcatcg atgggtgaca atcgatccaa gcttcctc 298

<210> 36839
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-H6

<400> 36839

gagcgaggca ggcaactaac caccgagagg cagggacagg aacaggaagc cggaggcgaa 60

gatgtcgtcg gtgttcaacg gcgatgagac ggcccccttc ttcggcttcc tcggcgccgg 120

cggcggcctc gtcttctcat gcatgggcgc cgcgtacggg accgcgaaga gcggcgtcgg 180

cgtggcgtcg atgggtgtga tgcggccgga gctcgtcatg aagtccatcg tgcccgtggt 240

catggctggt gtgctcggta tctacgggct catcatcgcc gtcatcatca gcacggggat 300

caaccccaag gccaagccct tactacctct tgatggctac gcccaccttt cgtncgggc 359

<210> 36840
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-H8

<400> 36840

cccacgcgtc cgctcagata ttatgtgggc agaagcaatg gggaaacttg aatgcatgga 60

tagtgcagac agggagaggc tgtggcctca gcttgtgcag ggttttaaag acctttccca 120

tcggcttaag cttcaagatg aagtccttgt ttcggacact gatagattga gcatgactca 180

ctctaatgtt aaaaagctgc aaaggcattt ccaagctgac acgtatcctt ggatccagcg 240

attgaagcaa caagagctgg ctattcagag acgtctttta aggtttgtta gaatagtgga 300

ggcattggag aatcggggct accgctgtcc tttaacaaag gaggaagctg acttgtatga 360

aagattggtt gctatattaa agcggctaan aggacataac gctgatcttt ctaagagggt 420

caatacac 428

<210> 36841
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-H9

<400> 36841

ctagggtttt gctgctctcc gaccccgagc tccgaaggcc gcagcatcag gcgcggcccg 60

gctcgcgtgt gaccgagatg gcgctgccga atcaggggac cgttgattac cccagcttca 120

agctcgtcat cgtcggcgat ggtggaactg gtaaaactac atttgtgaag aggcatctca 180

ctggagagtt tgagaagaaa tatgaaccaa ccattggtgt ggaagttcat ccgttggatt 240

tcaccactaa cttgggtaag atcaagttct actgctggga taccggaagg caagagaagt 300

ttggtggcct caaggatgga tactatatcc atggccagtg tgcgatcatc aatgttgatg 360

taacctcaag gcttacttac aagaatgttc ctacgtggca tatggacctg tgcagggtct 420

gtgaaaaca 429

<210> 36842

<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A1

<400> 36842

acggggtctg gctcccgctt tataactaac gtctttagtt tcagggcacc gcggcacgga 60

cgccggctgg gtcgccgtag gcaccgactt gggcggaggc tccggggctg ggaacgaggg 120

cagcggcccg gccatcatcc tcggcagctt ccagcagcag aactacctgg tggagtacga 180

cctggagaag gagaggctgg ggttccgacg gcagtcatgc acgtcgtcgc cgtcgtgagg 240

gctcacgacg tcagcatggc ggggatcgga gtgg 274

<210> 36843
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A10

<400> 36843

gagagggcag agttgctgca cgaactgctt tagagcggag ctggcttcga ccccctcccg 60

gttcttaccc aagaaacact gatcatctgg ggcgacaaag accaggtgtt ccccgtcgac 120

ctcggccaca ggctgcacag gcttctgggc gagaggtcca ggctagagat cgtcagggac 180

gcagggcacg cgctgcagct ggagggcgcc gaccacgtca accgctccat caagtcgttc 240

ctcctggacg agcgggtcgg gccgggagcc ggcgcgggcc gcaagtagga cgaggccttc 300

tcccgtccag gcccacaagc aaacggaggc ctgctcgcag gtgcctgcgt tgcagagctt 360

caacagtgcg aacg 374

<210> 36844
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A11

<400> 36844

cccacgcgtc cggactagtt ctagatcgct agccgcacgc ttcttgttgc caaagaattc 60

cctcccctag ccgccgccgc cgctcgtctc cctgagaggt gccgggaccg aggatttggc 120

cgagttctag gtagagaatc ggttttactt gtctcagccc ggggtctgct gcgtctggtg 180

gtggtgaagg ggagaaattc gtgagatctg ttccggatca ggcgtgcgag ctcgggaatc 240

aggggtttca cacatagctt cgtcgatttg aatttgatgt actaatggag tctaagggtg 300

gcaaaaagtc tagcagtagt cgttctatga tgtatgaagc tccccttggc tacagcattg 360

aggacgttcg acctgccgga ggcgtgaaga ag 392

<210> 36845
<211> 118
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A12

<400> 36845

agcggtttga ttctgttggg tgcttttctt tctgtttttt taggatgcaa agaactcgga 60

ttcacaaact ttgttggctt cactgctgat ttttttaata attaggcatt tcagtggt 118

<210> 36846
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A2

<400> 36846

tcccaagcca gccattggtt ggtagcaagc tcaagctaat caagttagct ttagataccc 60

gctcccgctc ttcttccctc cgacgaaggc agctgacgac acagcaggct agcttcggag 120

ttcggagcac tcagccatgg ccattgccgg cgctctcctc ctcctgctcg gactcctcgc 180

gcgggaggcc gctgccggcg ggtggcagag cgcgcacgcc acgttctacg gcggcgggga 240

cgcgtccggc acaatgggcg gcgcttgcgg gtacggcaac ctgtacagca cggggtacgg 300

cacgagcacg gcggcgctga gcacggcgct gttcaacgac ggcgcggcgt gcgggtcctg 360

ctacgagctg cggtgcg 377

<210> 36847
<211> 110
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A3

<400> 36847

gtttctgccc ctgcttccat ttgatgtcac tagtggtagg gagtgtggca taatcatgta 60

gatgtacctg ctatgcatac atcgttttaa taaatggcac cattgctctc 110

<210> 36848
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-G6

<400> 36848

gtctgcacag aaaggatctg tggtccacgg aaaggaaatg acgggcctcg agatccttct 60

ggtacttaaa aacacctggg atggctacaa tgccggctgt ctgatgttcc taacctcggt 120

cgctgggtgc accatcttct gtctaccacc gacggtcccg gggttcctga aatctgaaga 180

tatgggagtg gtagatatcg ccggagctgt tgccttgcca cgtncatttg gttgatcctg 240

ctgggcgttg cccactccgt ccaccatgta cagtagatgc aagtcctctc agttttttg 300

ggggaagggg ggtggatatc tgatttctgg accaagaaca atgtanattt gccgcggttc 360

tcgccctcct tcagtaaatc cacc 384

<210> 36849
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A4

<400> 36849

cccacgcgtc cgcccacgcg tccggttagt tacctggtgc taacgaagta tactcacggg 60

gaggggctaa ttttacctcc gtcacaagca tttattaaaa catcattcta aaattcaaac 120

ccatgaacac tcagacctaa cc 142

<210> 36850
<211> 377

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A5

<400> 36850

agctcccggt cgagaactac ttcgtggtct cggggcgcgg cgccgtggag gccatctgcc 60

tcgccgtcgt caccgacttc ggcggaggct ccggggctgg gaacgagggc agcggcccgg 120

ccatcatcct cggcagcttc cagcagcaga actacctggt ggagtacgac ctggagaagg 180

agaggctggg gttccgccgg cagtcatgca cgtcgtcgcc gtcgtgaggt ctcacgacgt 240

cggcatggcg gggatcggag tggaggccag taattactcc agagtccagt ccacgtaaca 300

ctccaaattc caattccaaa agctggctgc ttgatctttt gttagtgctc gtgtactgct 360

aataaaaaac taaattt 377

<210> 36851
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F1

<400> 36851

cggacgcgtg ggctctggtg caacttctgc aaactgctga atttgacatc aagaaagaag 60

cagcctgggc aatttcaaat gccacttctg gtggcacaca tgatcagatc aagtaccttg 120

ttgcccaggg ttgcattaag ccactctgtg atctgcttgt ttgcccggat cccagaattg 180

taacagtttg cttggagggt cttgagaaca tcctgaaagt tggcgaggca gagaaaaatc 240

ttggtgcagg cgatgtcaat gtttacgcac agatgattga tgatgctgag ggcctggaca 300

agattgagaa cctacagagc catgacaaca ctgagatata tgagaaggct gtcaagatgc 360

tcgaatctta ctggctagag gaggaagatg atgccatgcc ctctggcgac aatccccaga 420

atg 423

<210> 36852
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F10

<400> 36852

gccgccgccg ctgcagtgtc catagccacc gcaggagact gagatggggg gttttgtcaa 60

gacccacaag agcaatgcgt acttcaagcg tttccaggtg aagttcaag 109

<210> 36853
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F11

<400> 36853

cggacgcgtg gggtgctcgc cttcttcgcc gcctccgacg gcatcgtgct cgagaacctc 60

gcgtcccgct tcatgtccga cgtgcaggtc gccgaggcgc gggccttcta cggcttccag 120

atcgccatcg agaacatcca ctcggagatg tactcgctgc tgctcgagac ctacatccgc 180

gacgacgtcg agaaggaccg cctcttccgc gccatcgata cggtgcccgc ggtccggcgc 240

aaggcggact gggccatgcg ctggatcgac ggcggggagc gcttcgccga gcgcctcgtt 300

gccttcgcct gcgtcgaggg catcttcttc tcgggctcct tctgcgccat cttttggctg 360

aagaagcgcg ggctcatgcc gggcctcacc ttctccaacg agctcatctc ccgcgacgag 420

ggcctgcact gcgatttcg 439

<210> 36854
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F12

<400> 36854

cccacgcgtc cgcccacgcg ttcgaaaggt agcaccggat cggagcaggc gatacggctg 60

cgacgacaat ggctgcaaca agggtttccc cggttcttct cttgctgctc accgtccagc 120

tcagcttgct cttccgtcta cctgactccc gcttcaccct ctccttcacc cttgcctcgg 180

aaccagagca tcaaaacgcc aagcatcatc gccagcccga gctgctggtg cagtcaactt 240

<210> 36855
<211> 411

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-F2

<400> 36855

cccacgcgtc cgggagacgg agcggagctc caccgagtcc tccggggctt ccgggctcga 60

cttcgaggac accgcgctca cgctcaccct ccgcctcccg ggctccgcgc cttccgccgc 120

cgccgccgcc gcggcctccc tgtccctctc ctcctcgtcg tcctccgcct tccccgaccc 180

cgaccgcaag cgcgcctnct ccgacgctga ccccggccgc tcctccccgc tcgccgcgtc 240

ctccgacgct gcaccggcac ccaaggctcg tgtggtgggc tggccgccgg tgaagtcgta 300

ccgcaagaac gcgctcgccg acgccgcggg ctccggcaag gccgccaagt tcgtcaaggt 360

ggccgtcgac ggcgcgccct acctgcggaa ggtggacctn caggcgtacg c 411

<210> 36856
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F3

<400> 36856

ctagttctag atcgcgagcg gccttatatc tcaccatggt tttactttct gcgcatagac 60

ctgcaacttc tggaaataat tgttgaaatt tactctgcaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaacaaaaca aaaaaaaaaa 180

tagaacagaa actgaacgat gctagaaaaa ataa 214

<210> 36857
<211> 181
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F4

<400> 36857

gctaacaatt tcgcccgtgg ccactacaca tttggcaagg agatcgttga tctgagcctt 60

ggccgtatgc gcaagcttgc tgacaactgc acctgtctcc agggcttcct ggtcttcaat 120

gccgttggtg gtggcaccgc ttctggcctt ggctctcagc tcttcgagtt cctgaatgtt 180

t 181

<210> 36858
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F5

<400> 36858

gcttctcaag taccatgcca gggttcttta tattgacatt gatgtccatc atggagatgg 60

agttgaagaa gccttttatt tcactgacag ggtaatgact gtgagtttcc acaagtatgg 120

tgacctgttc tttcctggaa caggtgatat taaggatata ggagaaaggg aaggaaaata 180

ttatgctatc aacattccac ttaaagatgg gatagatgac actagcttta ctcggctttt 240

taaaacaatt attgccaaag ttgttgagac atatctgcct ggtgctattg ttcttcaatg 300

tggggctgat tcattggcga gggatcgttt aggctgcttc aatctctcca ttgaaggcca 360

tgctgaatgt gtaaagtttg tcaagaaatt caatattccc cttctggtaa ctggaggtgg 420

tggatacaca aaggagaatg tagcacggt 449

<210> 36859
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F6

<400> 36859

ggtcctccta gttcaggcct catgccatgt tcacctcaac aggggcattg gtgcatattg 60

gggttgaaca cgttaccacc ggaacaattg tgtaactgct gctgttgagc ctgcccgtct 120

gcatttgctc gctgttcaag ctacacatga aacctgtgtt gtattctgta gttcagtatg 180

cagagtttat aaccttgaga tacaagcatt ttatggtaag gacagcatta gttccggtag 240

aactatattc tgtgctagaa cttgctgacg caagtgtaac tgctgatctt gttcattcgg 300

ttgcacagaa atcgaaaggg attaaaggag atcagcttaa atctctacat tgaacgccat 360

gctgaatgtg taaagtttgt 380

<210> 36860
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F7

<400> 36860

gctttgtttt attataggac aagcctgctc tgttcagaag cttcttcaaa tggctaaagc 60

ccggtggcaa agtcctaatc agcgactact gtgagaatcc tggaaaacca tcagaagaat 120

ttgctgcgta cattaagcag agaggctatg accttcacga cgtgaaggct tatggacaga 180

tgctcgaaga tgctgggttt cataat 206

<210> 36861
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F8

<400> 36861

cggacgcgtg ggtctgcctt ggctacttca tattccgtaa tcagcttttt aatgtatatg 60

cgccaaagta tgatactgga gggaaatttt ggcccgttgt gcacaacaca acgatattct 120

ctctgggtgt tctgcatata attgctattg gagtatttgg gataaagaag cttccccttg 180

cgttcagttt gctacttccc ctaccaacgc tgacccttct gttcaacgaa ttctgccgga 240

acagatttct gcctatcttt gaagcatact ctaccgagtc tttgctaaag aaagatagag 300

aagaacagag caaaccagat atggccgagt tcttcagtaa tcttgtaaca gcttac 356

<210> 36862
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G1

<400> 36862

cccacgcgta cggatctcga tcgcgagcac caactgttcg tcgttatgtt cgacaccgac 60

gggtgctcga ctcgccctgc atatgcgtct ctctgcctgc caggctcaag ggctccacgc 120

tcgccaccaa cggcgtgata acggccgggt ctgacgagtg ggccatctac ggcggtaccg 180

gggtgtttgc catggctagg ggcgtcataa ggagaaggta tctcgacgac agggcccgcg 240

ggaacactga tgagctcaac atggatgtct tctgccggac gtttggctca cagtcacagc 300

tgcaagataa gatgcaggtg catgagcagg ggcagggctc tagcgtcacc aagattggac 360

tatggtgtgg accgggaggg tcggcacagg aca 393

<210> 36863
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G10

<400> 36863

tcgcaccaat ttgtttgact aaatttaag aataatatac attcaataca tccttcaaaa 60

tttgccaagt ctgttaaaaa aactatgtaa aagtctgaaa tgaatttgtg gtatgtttga 120

ttatatttgt cagtgtagtt aaagttacta gaagatttgc tcttcacatc cttgattggc 180

tagtggttta tttaccagtt tgtgacattc aaagattcgt ttctgatcat gaaggttatt 240

tgtgcattaa gaatcttcta aaacttaata cattgattgg ttgatgagta actgattcgc 300

aatgcaacgg gcacaagacc tttttttaa aaaaggtaac ttatgctatc ttatttggtt 360

aaaaat 366

<210> 36864
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G11

<400> 36864

aattacctac tcgacccact ctttctcacc agatctgctt gactaacttt taagaatttt 60

atacattcaa tacatccttc gaaattttgc gagtttgtta ccaaaactac ttcaaactct 120

aatatgaatc tacgctatat tcaataatat ttcactctct caattaatgt actaccaaat 180

atcattataa gatcctccta atgttagaag ataccagtct aacctcttgc gttgctcatc 240

tcacaattac ccactaaagg gagctgtaca ttcaaagtga agctcta 287

<210> 36865
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-G2

<400> 36865

cccacgcgtc cgcccacgcg tccgcaacag tcatgcacct ctggccttat cactcccaac 60

gatgaccggt gctactttaa atactcatac accaaaggct ggtgagccgt atgctgatct 120

aagcgaccaa tatgctgtac tggtatctta tcgctgtaat tacacagaat cgaaactttt 180

tttcaagcaa gcaacaagtt ggcgaccctc tgcagccagc gatcttatga tctcagtatc 240

atccgaactg tctttacgga atcctagtct tggtgctcgt gttcctcaac tccccgtgca 300

gatactaaca ctcgaagcta ctaatatgac atccgaaaac cttacattaa ctgtccttgc 360

tcctgaagca tctggttctt cttcagtttt atccttgaac tcatctncaa ccaccccaaa 420

tggttctttt gatggtgtta atgagtcatc aaa 453

<210> 36866
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G3

<400> 36866

agtttctaca tcagttctgt tgctggctcc aacaatggaa gttctattgt agtgatgtca 60

aaaggcacac catatacaca gcaatcttat aaagtcagtg attcctttcc atttaagtgg 120

ataaacaaga aatggaaaga aggttttcat gtgactgcaa tggcaacatc aggcaatcga 180

tgggctatag tcatgtcccg cagtgctgga ttttctgagc aggttgtgga gttggacttc 240

ttgtacccga gcgagggcat ccatagacgc tgggacaatg gcttccgtat tactgcaatg 300

gctgccacga tggatcagtc tgcgctgatc ctaagcaagc caaggcgtcg cccaagagac 360

gagacacaag agactctgcg gactacacag tttcccagtc aacatgtcaa ggacaagtgg 420

gccaagaatc tctaccttgc ttggatatgc tatg 454

<210> 36867
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E9

<400> 36867

cccacgcgtc cggagtcgtc actgacagcc ccgtgtacga cggccgtggc gccgacgccc 60

gcctcgtggc tcgcatacag ggagtcacgg tcctggtcgg taacgcagac gccttgttca 120

ccatggtgtt cgaaaccgac aggctaaagg gctccacgct cgtcatcaac ggaatggtca 180

cggatgggtc agacgaatgg gcgatctacg gcggaaccgg ggtgttcgcc atggccaccg 240

gtgtcatgaa gagaagaaac cttgccgccg gtagcaacga cgggaactct gacgagcttg 300

ccctggaagt tttctgcccg gtgtttggcg catcacagca accaattagc aagcagcagg 360

actccatctc ctccgtcacc aagatcggac tatggggcgg acagggaggg tcggcacagg 420

acatcacggc agagcagcca ccacg 445

<210> 36868
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G5

<400> 36868

cacgcttgta ccaaactatc gagagcatcc aatctagatc tacactatat gcaggtaacg 60

tgtgatgtct tgatgattat cttaccttca ttgaatctgt attgatagat gctgatctgc 120

gatcgaagcc aaaggatgta aatgtgtacc taggattcca tgtgaaggtt aacgtgcctg 180

atatgtaacc tgtaaaaacg tactatcaaa tatataccta atcaggacaa atacctgaaa 240

acaaacaaaa acatggcata 260

<210> 36869
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D3

<400> 36869

cccacgcgtc cgagcaggag ctggcaaggg agtgtgatta tgtgctagaa gcaagtaacc 60

ggaagcgtta caaagaattg ctatgtgata gtgatggtta taatgtccca aaggtcattg 120

atcaattgtc tagcaggaaa gtgctgacct cggagtttgt ttccaggcat tcctatcgat 180

aaggtggctc agttaagtca ggaaacccgc aattatgttg gttgtaaact gcttgagctt 240

acaataaagg agttgcttgt cttcagattc atgcagacgg atccaaattg gagtaattgt 300

ctgtatgatg atgctacaag gaaattcaat ctgatagatt ttggagcaga ccgtgatttt 360

gcataacact tctgagatga ttatctacga atggtaggtg cctgtgcaaa tagagatcgg 420

a 421

<210> 36870
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D4

<400> 36870

ggagaactgc cagaagagca agatcttctt catcgcctgg tctcctgaca cggcgcgcgt 60

ggagagcggg atgatctacg ccagctccaa ggagaggttc aagcgggagc tggacgatat 120

tcaagtggag ctacagtcca cctactatcg tgtggttgga catgacacaa ttccaggtta 180

accctgcata tgatgctcag agaatatttg cctatgttca aacactgatg tgcgtcacag 240

acccaaattg tgctgc 256

<210> 36871
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D6

<400> 36871

caatcataca gctgcggaaa tggaacagca atggctactt cccttctagt ttggaaatat 60

ggaaagctag tgagaagcag gacgattcca ttctattgac tgatgctttg gcagggaagt 120

ttgagaaaga cctttcttca tgggaaccgg cacatgttag tttggttcaa attaacaaaa 180

cccctcttga gcaaagcaca atagctggtg aacaaactcc aaaatcagta gttgcaaagt 240

ctttctcaag tagtaatcaa agacatgggt atagttcaac aaaccttgga acaaccatga 300

tccattctgg cacacaaggg tattatggaa tgcaaaattc ccatgcagca tacacaagcc 360

aacattctct tact 374

<210> 36872
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D7

<400> 36872

ctgtacgcgt gggttcggac caacaacaac aacaccggca ttcgacgcga cgacggcgaa 60

aagcgaaccg caaaggcccg gctcccccgt ctaacggggg taccggcaag caacggcaac 120

ccacccgtaa cggccccccc ccctcggacc ccaatccgtc cggcggactt ccgcccagtc 180

ccggtacggg gggggccggg gacccctacg gcacaggggc caaggctaca cgcccccgac 240

cgcctactgt gcccggggcg ggtacggcaa cgtcgtgcac gtcgcgcacg aggtcggcga 300

cgagagggct tacta 315

<210> 36873
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D8

<400> 36873

gcaacgcaac tgcaggtgac tgatacaact tcatcgacat tagataaact atggtgtaca 60

ggaacggtaa agcgagcctt gagcctacta aacaccatac cgcaagacac caccatcaga 120

ccagtacgcg ccgaccaacg tgtgctccta taccgtacat ca 162

<210> 36874
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D9

<400> 36874

gaactaccca ctcgacccac tcatccactc ctcatttcat atacaacatt tcaaaatagg 60

agatcatctc caaaactacg atacttgtgt gcttcatatg ctcaccatcc tgtccaacta 120

ttacatctaa atccaaccac ctgatctcac tcatattcat ttaacatcat gaccatcatc 180

cactacctca acaactacta caatcctctt ttctacttca atcacaatta tact 234

<210> 36875
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E1

<400> 36875

cggacgcgtg gggaaaaccc ctgctgcaaa gaaggataat gctgagggac aagaggttga 60

ggcagcagct gaggaaacga aaaagagcaa ccatgtcacg aggaagcttg agaagcgcaa 120

ggagggacgt acccttgacc cacacattga ggagcaattt ggcagtggac ggttgctggc 180

atgcatttct tcccgccctg gacagtgtgg ccgtgctgat gggtacattc ttgagggtaa 240

agagcttgag ttctacatga agaagctaca gaggaagaag ggcaagagcg ctgtagctta 300

tagcattctc atggattggc ttgcaccgaa atgtgtgtcc tgatgagtac actttttttg 360

gttagtcgtc tcaagttcag agcgttatgc catgttttca gacctgatta gtacactctt 420

ttctaaaagc gattgagctc t 441

<210> 36876
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-E10

<400> 36876

ctccccaacg aagtgcgagc gacccacgtc cacacgacac gaaccaccac caccaaccag 60

cggccgcacc acgcacccag cgcaaagcga tggcgtcgct caccatgatg gcgtccttcg 120

ccgccgtggc ggtggccgcg ccctcgcgcc gcggcacctt cgccgtggtc aggtccgcca 180

aggtcgaccg ctgccaggag cccgccacgc tagcagcaac cgaggccagg cccgccgacg 240

acggacgccg cgccgtcatg ctcgcggctg ctgcggcggc cgtggcagcc atcggcggcg 300

ccggcgccgc catggcgggc cccaagaacg ggacccccga ggcgaagaag aagtacgcgg 360

ccatctgcgt caccatgccc accgncaagg tctgccacaa ctgagcacgc ccgc 414

<210> 36877
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E11

<400> 36877

ctcccgctcg gctcggcgaa cgcgatctgt tccccaacct ccgcagccgc tccaccgtcc 60

ggcactccgg ctgccgaatc gacccgcccc gatccagatc aggagctgag ggatggacgc 120

gaacaggcgc cagagtggga tccagcagtt gctggctgcg gagcaggagg ctcagcaaat 180

tgtgaatgcc gctagagctg ccaagtcagc gaggctcagg caagcaaaag aggaggctga 240

gcgggaaata gccgaatacc gtgcccagat ggaggctgag tttcagagga aggttgcaga 300

gagcagcggc gactccggtg caaacgtcaa gcgtctcgag gaagaaacgg cggcgaagat 360

cgagcaactc acccagcagg ccgcaagcat ctccccggat gtcattcaga tgcttctgcg 420

gcatgtcacc accgtcaaga act 443

<210> 36878
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E12

<400> 36878

gtagctgttg gtacggtttt cctcctcgct cttcttctcc ttcttcttgc tgctggttgc 60

cgggagctga gatcgatcga gagcactgct gttgttcgtg cggcgaggcg gcggcggcgg 120

cgcgcggcag tgggcggaga cgacgaccga tcgatcagct gaaggaatgt cgtcggccca 180

aatcgtgccg gcggaccatg tgtgctatgt gcactgcaac ttctgcaaca cagttctcgc 240

ggtgagtgtc ccggggaaca gcatgctcag catggtgaca gttcggtgtg ggcactgcac 300

aaatctactg tcagtgaatc tgagagcact catgcactca gtcccagaac aggatcagct 360

tcagcaggaa gacatcaggg tccatggcac gttgcgtgag catcatcagt gtggcggcgg 420

gcaccatctg gagctgggc 439

<210> 36879
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-E2

<400> 36879

gcacgccgtg gcccagatgt ccggcggcac cttctccttc atcgacgtgg tggggtcgat 60

gcangacgcc ttcgcgcagt gcatcggcgg cctcctcagc gtcgtggcgc aggagacgac 120

gctcagcgtc gagtgcgccg accagggcgt gctcctcacg tncatcaagt ctggcagcta 180

cgccagcgga gcggacggcg acagccgcgg cgggttcgtc gacgtcggcc gcctctacgc 240

cgacgaggag agggacttnc tcgtcaccgt gcgcgtnccg ccgtcacgcg cgaccatcgc 300

gctcgtncgg ncgagctgca cctaccgcga cgcgggcacc acggagatgg tgcgggtggg 360

gggcgacccg gtgacgctgc tccgcgcggn gagcccggtg agcgcggcga tgtccctgca 420

ngtggagcgc gagtggcacc gcgtncacgc 450

<210> 36880
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E3

<400> 36880

gacaaaggag aactttgatg ctctcgaaaa tctttcgggt gttgattcca gcagcgctca 60

agttgttgaa gatgacaatg acgatgacct tgttatgttt gatgaggacc caaggcaaag 120

taagaagaag agattgcagt agcatcctgc tgcggcgata acagctcttg actcccggca 180

tcgtggctaa cacattgttc gatcgtaaca tctttgataa cttatttatg cggttatgta 240

ccaggttgat gttgaaacat tagtaacaat gcccagggca ccttttggcc tcagatagtc 300

agataccctg tagggttgta atttgtagga tttaggaaca agagcaacta atgctcagct 360

gacagactgc tgcgagatag aaattgtatc tcaagag 397

<210> 36881
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E4

<400> 36881

gccagcatgg aacccctgaa gtccccagaa ctaagctatt ggaacgactt gttattccat 60

ggcatccaaa gtccaaatgt tagtttgcta agctccataa tgctgtggca tcgtattgcg 120

aaaacattga ttgggagaac attagtacat gaatacttga tcttcatagg tcagctttca 180

tgcatgtgca cacatggaaa atacatagtc ttagggctag cttatttatg cggttatgta 240

ccacgatgat gttgaatcat tagt 264

<210> 36882
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E5

<400> 36882

agacgaccgc agaggcccgc ctcccccggt ctacggcggc tacggccagc caccgccacc 60

cgacccgtac ggccgcgcgc ccgtcgaccc cgatccgtac ggtcgacctc cgccccagtc 120

cgcgtacggt ggggccgggg acgcctacgg ccacagcggc caaggctacg cgcccccgcc 180

ggcctacggc gccgggggcg ggtacggcaa cgtcgtccac gtcgcgcacg aggtcggcga 240

cgagaggcct tactacggcg gcggcggcgg cggtcttggt ggcgcctacg gaggcggtgg 300

cttcgagtac gggcacgagg gccgaccgca ccacggcggc ggcggatccc agtacgggca 360

cgagacacgc ccgcaccacg gcggc 385

<210> 36883
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E6

<400> 36883

tgaatgcaca gagtggggcc aagttttcat tttggattct ttggcaagat attgagcaac 60

ggattccaag gaagcttaaa acataatgga accagttaca ccccgtcttc aacatgcaaa 120

ttgggccggt ggtctttctg gtggcaagat aatccttcta caaatggagc ttattacgag 180

caccgatgta gtcaagaatc tctgcaagaa aatggcttcc ccttttggta ctcttttgtc 240

agcaaagcct tgaattcaat atgtagcctt gaagaacatt aatctgatag ttcaaaagaa 300

gcctacaata ctcgctcatg agattaaagg tttcttttgc aagtacaatg accctatata 360

tgttaagatg gaaaagctgg aagatatgat aaagcttgcc tcagatcgaa atatagatca 420

agtgctcttg aaattcaagg agta 444

<210> 36884
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E8

<400> 36884

cggacgcgtg ggcggacgcg tgggttctga taccatttat ggtctggaag atgatgtgcg 60

gaatttgttt aggggatgct gtgtacagtg tactgtcttt taccagtcac ggagtgtttt 120

tgttgtgttg tcacagaact acatacgatc tggccagttg atctcttagt tccattgggc 180

atggttggtg ttcggtaaat agaaaaggac atcactgtcc atatacagca aatgtgcact 240

aattacgctt taccgaagta ttgatggaaa tctaatcact ttctaaaggt cctcgtatgt 300

gcaagattgc ttattattat tacttaccac gactttatta tatgatcaca gt 352

<210> 36885
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D12

<400> 36885

cggacgcgtg ggtctagata ctgccgcgat ccgaacaatc caaggaggat gggtagagca 60

gctgctaagc gaaagtaggc agggagcgcg gacttggttg gagttgagca caccaacttt 120

tgctgtgggg gggtctggtt tcgtgtttga tgtggagtaa tgcagtacca tcacctcagc 180

tagtattaag tgtagatagg tgtggatgat tttggtgaat ggtgttatgg acggaaatgc 240

tgcaggctga gcgacctagt aacctatgcc atgtagtggc atctaaatta gcctgggatt 300

gtgtatgcgt aaaaagaacg cctaagactt aaccatgtta ttatgtcagc ttggtacatg 360

gtgataaaaa gaatctgacc atttcatgtc 390

<210> 36886
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B3

<400> 36886

cccacgcgtc cgcccacgcg tccgtgcaga tccgtctttg ggttgtgatc catttaacat 60

ggctgcctgc gttctggtgc cagcatctgg gggtgttgga ttactgtatc gttatttggt 120

tccggtttgt tggccggatt tttacaattg cttatctggt 160

<210> 36887
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B4

<400> 36887

atttaattgc aatttcgtgg tcgaacaaga atattttatg ataaccaatt aatgtattat 60

gcgacaagta tccgatatcc gatcaaataa tatccgtatc cgtcacttat ccgcccggat 120

aaatatccgg tccctgtatc cgtatccgtc ccgtttctaa ctatccgtat ccgatcccga 180

atccgtttta aatacattag ggtaggatac gagatgagct actatccgtc ccgtatccgc 240

cgttttcacc cctacgatta atgatgttgg cgtaggagta gtttatttat taaacgtgca 300

gtgcagctat gggcgctcgg gcgcctttcg ccg 333

<210> 36888
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B5

<400> 36888

ggatgctgaa actgagcgaa acggtccatt aaagcaagtg cccatgtgga ccaagaagtt 60

gacatgccgt cgttaaaaga ccgtctggca tcttttaata tcagcgactc ctctccggat 120

cattctgcca tggaaactga agtaacagaa ttaacagaac agcataatga aaacaaagcg 180

acagagggag caagcaaaag aagcggacga aagaaggcgt catcatcctt ggcgacgata 240

ctatctgatg ttgatgatga agtcctagag gtccaagctc agaagaaag 289

<210> 36889
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B6

<400> 36889

gaattaggag gcgatggggc actccaacgt ttggaactcg caccccaaga actacgggcc 60

cggatcccgc gtctgccgtg tctgtgcgaa ccctcatgga ctgatcagga agtacgggct 120

gatgtgctgc aagcagtgct ttcgcagcaa tgccaaagac attggcttca tcaagtaccg 180

ctgaaatcag gtgggaatgg accatgttgt agaagcgaag ttgtagtttt atttccagta 240

atttaagatg tttggtcaa 259

<210> 36890
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B7

<400> 36890

tgaattatca cgcgatcgtc caatccaaca ttttgaactg ctacccctat aaaggctccc 60

ttctatcctt cgcctgcctt ctatgttcta actcttatat actgatccct aaattcaatc 120

tactgtcctt caatctacaa tttcgtaact atgccaacca cattgtcttc aaacaaaacc 180

gctttaatca acattcaatt gaccacatct tacatactaa cctatagtcc catttccaac 240

gatctatata acattttcac aaacttaatt gctaatacta ctcccccta 289

<210> 36891
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-C10

<400> 36891

cccacgcgtc cgcgatgcta tcaaacattc tttccttgca aaatttaatg agataaagcc 60

ggttgcatat tcagagtttt tggaagatct ttgcaagcag attttgaatg acaaacctga 120

tgaccgtcag aaggacctaa cattcatccc acttgcccca gcttgtgttg taattcgtgt 180

attgacccca gtatatgcta ccctccttcc tgctggccct tttatctgga gaatattctg 240

gattttactt tggtcagttc tgacctattt tatgctcgcc atattcaaga taatcgtggg 300

attgatactg cgctgccttg caaattggta tgtaaatcta cggctcacaa gaaaacaaca 360

cgtggattga gtacatggca ccacaattct gctgctatcg ntacatctgt gagtagaaaa 420

tttgctgtgg tgcatg 436

<210> 36892
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-C11

<400> 36892

ctaacactta cattgtcatc agtcatcgcg gcctcagcta tctgaatcac ttgtcccgct 60

cggtacgtag tagtagtagc atgggctgct gtggcgccgc catgtccgcc aggccgcggg 120

gcatccacga ggagacgctg ctgcgcgtcc cgggcgcgtc cgtgcacctc ctggccggct 180

catccgacgg cccggtcgag ctcgcgcgcg gggacctcgc cgtcgtcagg ctgaccaagg 240

acgacgtggc cgtggccacc gcggtgcgcg tcggcaggga cctgggctgg ccgctggcgc 300

gggacgagcc cgtcgtcagg ctcgacccac tgcactacct cttcacgctg ccggcggcgg 360

acaaggacgg gacgttcctc aacta 385

<210> 36893
<211> 325
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-C12

<400> 36893

acacagggca cacgcactac acgcacggca cgcagataca tatagagaga ggttagctat 60

ggcttgcaca tctatttaac taactaacta actggctagc tagctcgatc cgcagagcaa 120

agcgaaagca gcaagaagca aagcaatgga gaaccctgcg agtgtgctag ttctaccagc 180

tcatttcacc aaactcacct tctgaaacct gtacatccgc cgggccgggc cgtgcagcag 240

ggagataacc gaggagggca ggtgcgacct ggacaggaga tacttgagta acttctcccg 300

ctacgacagc cgctgccccg actcc 325

<210> 36894
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-C2

<400> 36894

cccacgcgta cggtgggcca ctggccatgg catgtactgg tccttaacat tggaaatcac 60

ctctgatcgc ggctcatgtc agctctgacc aatctctgaa gggcttgatc tctgcggcat 120

tgtttcacca cattaactgc attgcttgaa agatgcctgt catccaaaag aaactgcata 180

tctgacactc attgatcgac ttgcct 206

<210> 36895
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-C3

<400> 36895

cccacgcgtc cggtcaccgc cttccagctc gagcccgagg gggaccacaa ggccgaggac 60

gccgccggcg ccgtcgtcaa ctgatctgct ctagcttccg gcggcggcgg ccgtgcgtgg 120

gctgctcgat ccggtagtgg cagtggcttt gtgagacagt cgagtcgatt gtggtttccc 180

ctcctccgcc atgtgcgtgt agtggatgat gatgcaggaa taaacggtgt ccctggatcc 240

agaactcacg gttcgatcca tccagtttat ctcatgcttg tgtatctcta tgtatgcatt 300

gcctgtttga tcgctggaat ctactacttg cagcggcctc gtctgttc 348

<210> 36896
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-C4

<400> 36896

cggacgcgtg ggcgggctcg cctcggccgc tctggcgctt gtgcggtggg tgaagcgcgg 60

gtgctggtgc gggaagcctc gccagaccta gcgctgccga ctgccgagct gggtgtgggc 120

gcgaggagtc gacgggaaga caagggtgag gatcagaagg atacggtgcc actgcttatg 180

tgacattcaa ggaacgcttt gccttggaaa ctgcagtatt gctcagtggg gctactattg 240

tggatcagcc agtatgcata acctattgng gacaacctga gggaactttt aatttctggg 300

acaggccaac ttgngaggtt gaagaggaaa tcgaatacag gaactaccaa acatgccagt 360

acaacactac tncgcaggga agctttacag tggctcaaga tatcatgagg acgatgctag 420

aaaaggggta cgtgctcagc aaggatgctt tggc 454

<210> 36897
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-C6

<400> 36897

gtaggacctt tccatgttaa cgcatatggg aaggggtcc atgtcaatcc ttattcttgg 60

agcaaagttg caaatttact gttccttgat tcacctgttg gtgttgggta ctcatattca 120

aacacctctg atgatgcttt aaaaaatggg gatgcaagaa ctgccacaga ttcattggca 180

ttcttactga agtggcttga acgctttcct caatacaagg aacgcgaatt ttatttgaca 240

ggggagagtt atgctggtca ctatgctcct caactggctc aagccattaa aaggcaccat 300

gaggctactg gtgacaaatc aattaatcta aagggctata tggtaagaaa tgctctcact 360

gatgatttcc atgaccacta tggaatattt caattcatgt ggactac 407

<210> 36898
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-C7

<400> 36898

caagagctgg tactcatgga tactttcttc tatgacaagc tgtgtgtaca tgtgtgaatt 60

gattatgatg tgccggcaat tgtgcttatc atacttaagt gaatagatag agaaaccgac 120

cacacggagg aaaagtacat acctaaggca cttaattgca atggcatcgt actatttact 180

attattctgt gacaagctgc acgaacatgt ttgttctcat tacgatgagc cccctatagt 240

ttatgaacta caacttgtac acagatgatg atatgcccta catacata 288

<210> 36899
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-C8

<400> 36899

gtccctcctt cccgtctatg tgtttactgc accaccgtgg agcgaacatt catggcatct 60

ggctccattc cttcctttgc ttataagtga ccattattta tcctctacta gtctctttca 120

tgctacatcg aatctaaatt ccacttcaca tttgcacatt catgctctac ttctattaca 180

acccgtatga tccatccatt acactactat gttctttact gcatctacta atcttcatcc 240

gacttgacgc ctaaacaaaa tcggaccacc tgagtgaact tttaaaatta tttaccagac 300

aacttgcaaa gctaaacaag cactattcta cacgaactac caaacatt 348

<210> 36900
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-C9

<400> 36900

tcggcggccg tacctgagct ggacctgacc attcatcgcc agcaactact accagggctg 60

ctgggtgaag cgcttcaaca cgctgtcagc acaacacaac tcgctgctgc aggccaaggt 120

gtcgagcctg cagaacaagt accccggtgc gcgagtcatg tacgccgact tctacagcca 180

cgtgtacgac atggtgaaca gccccagcag ctaccggttc agcaccaacc tcatggcctg 240

ctacggcgcc tgcggaggca agtacaacta ccagaactgc gcgcggtgca gcatgcccag 300

cgcgtactcg tgctccgacc ct 322

<210> 36901
<211> 478
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B2

<400> 36901

ccggactgga acgaccggat cgacccccgc gtccgcgcag agaccgggag ccagatcttt 60

ttgcttaagc cgaggctgaa gaaattgagt tcgacggcca ggagaatact ggcatcaatt 120

ttgatgccta tgaagacatc cctgttgaga ccagtggcca tgatgtgcct gcaccagtca 180

acacatttgc agagattgat ttgggtgatg cattgaatga caatatccgg aggtgcaagt 240

atgtgaaacc aacaccagtg cagcgttacg ccatcccaat ctccattgct gggcgggatc 300

tcatggcctg cgcacagact ggatccggaa aaaccgccgc attctgtttt ccaatcatca 360

gtgggatctt gaagtcacca aagccacacc agaggtcacg gagtacaagg accgcttgcc 420

ctctagctct gatcttatca cccactcgtg agctttcagt ccaaatccat gaagaagc 478

<210> 36902
<211> 71
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D10

<400> 36902

attcccggtc gacccaccgt cgcccacgcg tcggagatcc cctctccaat ttctataaat 60

catatacctg g 71

<210> 36903
<211> 313

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H7

<400> 36903

cccacgcgtc cgcccacgcg tccgcacttc ttcaatccac tagctaagcg cgccatggca 60

aagttcgctc ttggtcacca ccgcgaggcc tccgacgccg gctgcgtccg tgccgtcctc 120

gccgagctca tcctcacctt cctcttcgtc ttcgccggcg ttggctccgc catggcaaca 180

gggaagctgg ccggcggcgg cggggacacg gtagtgggcc tgacggcggt ggcgctggcg 240

cacacgctgg tggtggccgt catggtgtca gcggggctgc acgtcttcgg cggccacatc 300

aacccggccg tga 313

<210> 36904
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-H9

<400> 36904

gagagaataa gcttgattga aagcagccct acaaaagtat ttgagcttga ttctgccaat 60

gaggtggtgg tgaaaaacgc ggaggcatac acctacgacg acgaggtgat caagcacgcc 120

gaggccatcg ggaagccagg cttggtggag atcaccgcca aggaggacag cttcgtcttc 180

accgtagaaa caaccggcgc catcacagcc tacgagctga tcatgaacgc gatcacggtc 240

ctgaggcaga aactggatgc cgtcccgctt caagaagacg acggcgacct tggcgagctc 300

ggcgcccacc ttggtgggcc ttaggagctt tgagcaagaa ggaatcgccc tgtggccttn 360

ctccctccca ctgcctacgt aggcctatct aactgccgtg cgtgctagtc gatcgatcg 419

<210> 36905
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-A1

<400> 36905

gcccaagccg accccgccga cgtacaccct ttcccccaag cctccgacac ctaagccgac 60

ggcgcctacg tacactccaa gccctaagcc accggctacc aagcctccca cgcccaagcc 120

gaccccgcca acgtacaccc cttcgccaaa gcctccgaca cccaagccga ccccgccgac 180

gtacacccct tctcccaagc cttcgacgcc caagccgacc ccgtcgacgt acactccaag 240

ccccaagcct accacacacc cgacgcccaa gccgacccca tcgacgtaca ccccttcccc 300

aaagcctacg acgcccaagc cgaccccacc gacgtacaca cctttcccaa agcctgcgac 360

acccaagccg accccaacga cgtacac 387

<210> 36906
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-A11

<400> 36906

gttcagtagt gtgctctgac agtgagatgg cgagcgtgaa ggttttcggg tcacccacct 60

cggcggaggt cgcccgcgtg ctcatgtgcc tcttcgagaa ggaggtggag ttccagctga 120

tccgcgtcga cgcctaccgc ggcaccaagc gcatgcccca gtacctcaag ctgcagccgc 180

aaggcgaggc gctcaccttc gaggacgaga gcctcaccct ctccgactcc agggggatcc 240

tccgccacat ctnccacaag tacgcgaagc anggcaaccc gtacctgatt ggcacgggcg 300

cgctggagcg ggcgtncatc gagcagtggc tgcagaccga ggcgcanagc ttcgacgcgc 360

ccagcgccga gatggtctac agcctcgcct tcctgccgnc caccctgccc aggcagaacg 420

acaacggcaa cgg 433

<210> 36907
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-A12

<400> 36907

gttcagtagt gtgctatgac aatgagatgt ttagcgtgaa agtgctcgcg tcaggcactt 60

gggcggatgt cacccgcgtg ctcatgtgcc tctacgagaa ggaggcgcac taacatcatg 120

atccgcggcg acgcctacct cggcaccaaa cgcatgcccc agtacctcaa gctgcagatc 180

gaaggcgagg cgctcaccta ctatgacgag atcctcacca tatccgactc cacggggatt 240

ctgcgccaca tgtcccacac gtacgcgaat cagggcaacc tgtacctgat tggcacgggc 300

gcgctggacc gggcgtacat cgagcagtag ctgcagactg aggcgcacag cttctacgca 360

cccaacgccg acatggtcta cagactcgac ttcctgcctg ctaccctgcc catgcagaac 420

gacaac 426

<210> 36908
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-A2

<400> 36908

ccaacactga catcaccggt gggggctggg gaggagaggg agagccttct ttaagatcag 60

tagatcacca caccctcacc cctgctcatt gccccccctct cacacacgca cacacactct 120

ctctctccca ttgtgtcact gtaactagca atggagctct aaaaatttgg g 171

<210> 36909
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-A3

<400> 36909

atttctcgcc ccctactgat taaattttct tcgcacgagg aaaaaaaaat caagtggcaa 60

gggcttgatc tggtgggcga cccatggtga aagggatggt agtggccgtg ccgaatgggg 120

tgaaggcgga tggcgccgcc gtcaccgacg ccgccgccgt cgtcgctaag gcagagtctc 180

ctaaatccgt tctggatgac gagaaaatct ctgaatccaa gaatgggaac gcctgcttag 240

ccacggagcc aattaagcaa gaggacgaga cctcagacgt atttgtggat gcaatgatgt 300

ccctttctga tgaccatgaa atc 323

<210> 36910
<211> 381

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-A4

<400> 36910

cccacgcgtc cgctcatcgc atcgcacgca tcgcacagac actccactgc acgcgcagca 60

gtggcgacga ccacctcgcc gccgctgcag ctcgccaccg cctcccgccc gcacgcctcc 120

gcctccggcg gtggcggggt tctcctcgcg ggcggttccg gaggtggggt cgcgccgggt 180

cggggtcggg gtcgagggcg attgcagcgg cgggtgtcgg cgcgcagcgt ggcgagcgat 240

cgggacgtgc aaggccccgt ctcgcccgcg gaagggcttc caaatgtgct aaactccatc 300

ggctcatctg ccattgcatc aaacatcaag caccatgcag agttcgctcc cttggtctct 360

ccagatcact tttctccccct g 381

<210> 36911
<211> 254
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-A5

<400> 36911

accacgcgtc cgagcggcca cccgttcctc ttcctcgtac gactacaacg accgccatcc 60

gtcgccatgg ctggcctcac caccacgctg ctgctcctgc tgctgcgctc cgccgcgctc 120

gcgtccggcg ccacggcggg cgacgacagc ggattcacga ccttcaaggt gttcttccac 180

gacatcgtgg cggggacgag cccgacggcc atccgcatcg cgcaggggggc ggcgtncagc 240

accttgtaca ccag 254

<210> 36912
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-A6

<400> 36912

ctcctgtccc tctccgcatc caagggttgt agccatccgc attcaccgga ccccaccggg 60

gatggccgtt tgagtgagtt cccgtaccaa ggttcttcgg tcttggaagc ctaagggaca 120

ccgggtcgga atgaggggcc gccattgcga gcgacgtgcc cattgacccg gagctcgagc 180

agatcgactg cgagatccac gatatctttc gggcccttca aaatggattt caaaagattg 240

attagattta agattcaaat aggcaagctt agcaattgga agatcttac 289

<210> 36913
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-A7

<400> 36913

tcgcccacgc gtccgcccac gcgttcgccc acgcgttcgc ccacgcgtcc gagatgaggt 60

aggtgcagaa cacggtccat tcatggattt gaaagcgaga ttcatggact ttaaacagag 120

aaactatgtg gggaattttt caaattaccc aaatcttgct tagcaacaaa cgccaaaagt 180

tatggtgatt gcttgggctg actccagaat ctgccctacc gctgtttggg ggttcagcct 240

gccgaagcat ttacgggtcg taatgtggcg aatttggtac caccatatga gcatgaggga 300

tcagagacta gtgcagcact agagtttgct atcaatacac tcgaggtaga gaatgtgctt 360

gtggtaggcc acagtangtg tgggggcatc aggcactaat gagcatgaaa gatga 415

<210> 36914
<211> 114
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-A8

<400> 36914

cgcagagacc gggagccaga tccgtttgcg aaagccgagg ctgaagaaat tggtttcgac 60

gggcaggaga atactggcat taattttgat ggctattaag acattcctgt ttag 114

<210> 36915
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-041-Q1-K1-A9

<400> 36915

cggacgcgtg ggcccaattg gaagggcagc taataaggta aggggcgacg aaaatggctg 60

caacgaccgc caccaaggac gacagtggct acggcgacga gcgccggcgc gagctgcagg 120

cgttcgacga cacgaagctg ggggtgaaag gcctggtgga ctccggcgtc aagtccatcc 180

cgtccatctt ccaccacccg ccggaagccc tgagcgacat aatttctccg gcgccgcctc 240

tgccgccgtc gtcgccctcc ggcgccgcca tcccggtggt ggacctctcg gtgacgcggc 300

gcgaggacct agtcgagcag gtgaggcacg cggccgggac ggtgggcttc ttctggctgg 360

tgaaccacgg cgtggcggag gagctgatgg gcggcatgct ccgcggngtg cgccagttca 420

acgagggccc cgtggag 437

<210> 36916
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B1

<400> 36916

actttctaag gcaaatgatt ctgcgtctga agatggagat tatgtggctg ctgaaaatca 60

aaagaaacaa tccaagaaag caagtgccca tgtggacgaa gaagttgaca tgccgtcgtt 120

aaaagaccgt ctggcagctt ttaatatcag cgactcctct ccggatcatt ctgccatgga 180

aactgaagta acagaattaa cagaacagca gaatgaaaac aaagcgacag agggagcaag 240

caaaagaggc ggacgaaaga aggcgtcatc atccttggcg acgatactat ctgatgttga 300

tgaggaagtc ctagaggtcc aagctcagaa gaaaggtaga ggaaggaagc ctgctgccgc 360

tgtgaagccg aaggctgctg ccgccaggaa aagggcgccg gctcaagcaa ggcaacgcag 420

aagaaaatag atgagatgc 439

<210> 36917
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B10

<400> 36917

ccacccgtcc acacaacgga aaagatcctc aaaccctagc tttcgacttt aggcgaaccc 60

tcgcgtattg ttctacagtg accgttgctg cgccccggca gacccaatcg cgatggagct 120

gtacgccaac gtggttccca agaccgttga gaacttccac gcgctgtgca cgctctagaa 180

tggcgttggc aagttctgga agccgctcca ctacaagggc tccacctttc 230

<210> 36918
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B11

<400> 36918

gcaccctcgg ccgaacagtt ccccgagtcc ccgactgctc tctgtctctc tattggcgac 60

gactgggcta ccgccgccac aggcgcccta cgccaggtgt ccaggtctcg ggcccttctc 120

cggcaccgag cacccaccag cggaatatac catggaggtc aggcccatgg tagctctgcg 180

tgccgcccta gttggtgggg tagcggcatt tgcgaagatc ggtggggcga tgaaagccgc 240

aagcggtgtc aagattggtg cagccgctgc agccgtcacg gctgcaacat cagctgccat 300

atcgggaaaa gacgcaaaag aagacacttc aaagccggaa acgaaatgat atgacccatg 360

gattggtcga caagtatgaa atcgcctctc cagaggttta gaagagagag ggtgccatag 420

tcaataagtt acaggagtaa attttga 447

<210> 36919
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H6

<400> 36919

cccacgcgtc cggccagtcc ttgtcgccgg ccccaaactg cgtgtggcaa aggcaggaaa 60

ggcatttgtc gatatggtag atgccagtgg ctatgcctat gccgtgatgc catcggccaa 120

gggtcttgtg ccagagacgc acccccactt catcggcacc tactggggcg cagtcagcac 180

cgccttctgt gctgagattg ttgagtccgc agatgcctac ctctttgcag gccccatttt 240

caatgactac agctctgttg gctactcatt cctcctcaag aaggaaaagg ccatcatcgt 300

ccagcctgag cgtgtgatag tggggaatgg gccggcattc ggatgtgtga tgatgaaaga 360

gttcttgtct gaattggc 378

<210> 36920
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B12

<400> 36920

cccacgcgtc cgagatgcca gatgtgcctc cggtctgatc ctttgctgaa ggtgatggag 60

cgactggcta atccgggggt gcggcgggtg ttcatagtag aagctgggag caaacgtgtg 120

gagggtatta tatcactgag tgatattttc aagttcttgc tgagcttgtg ataagagaag 180

aggagcatga cggacatttg tttgtgatca atagtaagaa aacagcaggg tatgtgaagc 240

aagctgccat ggatctcgca tttcccctgc ccctccggcc tttggtcaag taaggcaaga 300

ttgaaggtgg cgggctttgt ctttgctgat aatggctgtt ggaattcatg ggctgtaaaa 360

gtctttttt acccttggt tttcggttta accatttt 398

<210> 36921
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G12

<400> 36921

tctagatcgg agcgccgccc ttttttttt tttttgtgca gtggtaacaa acacaaacgc 60

agtgcagggt ggtaaacaag tgcagtggta acaaacacaa acgcgccata ctctacttgc 120

gttttggaca ccgtaggggt agggctacat tatttccaag agatcgatca tagacagagc 180

acgacatgtt ggggcggcgg ccgacagccc ggcactaagg acgacgacat cgacgacgac 240

ggaagccttg ggcatgttca tgtccagcat gatgcagcat gccccagatc cagaagaagg 300

ggttgatcag atgttgtcct tggcgacttc ggggagatgc accgggtagc ggtcgatgc 359

<210> 36922

<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G2

<400> 36922

cgcaagggac cattctttta tgggggagat tttaacaccg gtcaccatgt ggagaaaagg 60

gacgggggac aaaaagggtg ggaggctaat tggaacaagt atcacattga gctggaccct 120

caacttgaag ctcttgttgg aaggcatagt agaaaaccct ggtcaaagtt catgaatgct 180

gataaccaac atctagtatc acctgaggcc atagattttc tcgataagct cctgcgctat 240

gatcaccaag ataggctcac tgcacgtgaa gctatggcac attccta 287

<210> 36923
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G3

<400> 36923

cggacgcgtg ggctccggct tccgcgcgag gtcgagctag cgttgggagt tctcgagacc 60

tgctgtgatg gcgacagagc aagcggcgga gaactacacg gtggaggacc tcgtggccct 120

gaacccctac aaccccgaca tcctcaacga cctcgagaag ttcgtcaatg agcaggtctc 180

atctcagaca tataacttgg atgcaaatct cagccttctt cgcttgtacc aagttgagcc 240

agaaaggatg agcatacaga ttgtggccca catactgatt aaggctctca tggcaatgcc 300

agcccctgac ttcagtttgt gcttattctt aatccctgaa catgtgcaaa tggaggagca 360

attcaaggta ttgatagttc tttctcacta cctagagact gctaagttca gtcaattttg 420

ggatg 425

<210> 36924
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-G4

<400> 36924

cgcaaggaac cattctttta tggccatgac aaccatgacc aacttgtgaa gattgcaaag 60

gtccttggaa cagatgggtt gaatgcttat ttgaacaagt atcacattga gctggaccct 120

caacttgaag ctcttgttgg aaggcatagt agaaaaccct ggtcaaagtt catgaatgct 180

gataaccaac atctagtatc acctgaggcc atagattttc tcgataagct cctgcgctat 240

gatcaccaag ataggctcac tgcacgtgaa gctatggcac atncctactt nctncaagtc 300

agagctgtgg agaacagtag aacgagaccc acataatcgn tgtctacacc ctcgaaatga 360

aaagtgtgct aatttctgga acatcat 387

<210> 36925
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G5

<400> 36925

cgattgggtc ggaaatcgag ggtttggtaa gcgagatcgc cgccggtgac agctgacagg 60

gacgagatgg acgccgccga aggcggcttt ttggtcgccg ttttttgaat gctgttggcc 120

ttggccattt tccccttctt cttttggggc cgccgttcca atgccgcaca ccgccgttaa 180

cacaccgttc 190

<210> 36926
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G6

<400> 36926

ggagacgaaa gagaaatatg caggcggtgg cacgggcggc gcgtgggctc gcggctgcgg 60

ctgcagctgc gcggccgtcg gcgacggagg cagggcaccg gcggccaggt gcacaaggct 120

cgggcaatgt ggggcaagtg aaggacggga atctggagcg ggcgctgtcg atcatggagc 180

gcaagatgcg gtccagcggc atggagcgcc tcatacgggc gcgcacccat taccacgtca 240

aggactctga gaagcgcgtg ctcgcgcgta aagggcttat gcaacgcg 288

<210> 36927
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G7

<400> 36927

gaagactgaa gagaagggaa gacatggccg tgacggcgga agcggcggca gagatggtgt 60

tggagcggcg ggcgtacgcg cgggtggggc tcctcggcaa ccccagcgac gtgtacggcg 120

gcagggccct gtccttcgcc atcgccgact tttccgtcac cgttcacctt cgcccttcgc 180

ccgagctgct catccagccg catccgcacc acgacctcgt cgcctttccc tctctccctc 240

aactcgtgag ccgtttgcaa agtgaaggat attatggagg cgtccggctg ctgatggcta 300

tctgtaaagt tttctacaac tattgtgttc aaaataacat cagtttaaaa gctgaaaatt 360

tcaccttatc atacgatact aatattcctc ggcagtctgg gctgtctggt tcgagcgc 418

<210> 36928
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G8

<400> 36928

gtcgcccagc tgaggagagt gggcaagggg cacggggtgt ggcacttcga tcagatgctg 60

cttgaggaag aggcctaaaa agaagaacgg acagatgaat gaaggaaaca agtgtgtaat 120

gttgatcagg cggaggaata atgggtcaac tgacaactct gggtcggtgg atttgtagtt 180

ggtttgggtt ttttagttgt agaacggtgt tgccccctc ctagagaggg atgaacacat 240

tatgcatgcg atgtgtcagt tcggtcggtg ctatgctcgt tgggatttga ttgtcggaaa 300

ttaaacatgg gtgatgaatg tgtaccctcc ctaaaaaata aagtcctaaa atgaaaa 357

<210> 36929
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-G9

<400> 36929

ggacaggtcg cctgggatga gccggacctg ttacagaacg tgaagaggga agaagctgtg 60

cgtcccactg tacccggagc ttccgctgga gggccagttc ccggcgccga tgttccacgg 120

aagccccctc ctcggccgtg gcggcgccgg tggcccgatg tgctacttcc cggacggcac 180

tcctgcaggc atacagggag ccaggcatgc tcaattcggc atatccttat cagatctcca 240

cctgaacaag ctgcagccgg gcctgtcacc gcacgggctc caccgncagc tcgaccacgg 300

cgtgcaggtg caggtgcagc agccgaggat cgccgncggg ctcatcgtcg gcggccaccc 360

ggcggcccga gacgacgtct cgt 383

<210> 36930
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H1

<400> 36930

gttgacgaag cctcagcagg agatggttcg atgctgaaga atctcatttc tcaagatgac 60

tctggtgcgt cttcttcaaa agcttctcgg tccttctccc tactgtcacc gttccgcagc 120

aagcacaagg tgattgttct gtgagcacaa ggtaatcaat ttgggaggag aggaatataa 180

tggcgcagca cagtacatac ttttggtttt tcccttctag tatatattta cacacacgta 240

tacataaata catacatact atatgatgga cttgtcatta gacagcctat gtgaaagctg 300

tgtgtggcga tggattggtt gttgcccttg tggttttgta ccctaactat ttgtgttgat 360

atatatggtg atacttttttg ttc 383

<210> 36931
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-H10

<400> 36931

gttgtgatgt gaacgtttct gttcgaccag ttggacaatc agaatttggt acaaaggtgg 60

aaataaagaa tatgaactca ttttctgcga taaatagggc aatcgattat gagatctccc 120

ggcagattct gctccataaa gaaggccagg ctgatcaaat tgtacaagaa acccgcctgt 180

gggatgaatc ttctcagaaa acttttacaa tgcgaaaaaa ggagggactt gccgactata 240

gatattttcc agaacctgat cttcctgaag tagttatcac tagtgactat attaatgaaa 300

tcagcaagtc aatgccggag cttccagaag caaagcgtag gcgttatgag aatatgggac 360

tcagcatgca agatgttctg ntccttgcta atgatgataa tattggtcat ttctttgatt 420

ctactct 427

<210> 36932
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H11

<400> 36932

gacaaaggtg ggggttatgg ggatgaactc attttctgag ataaatacgg caactcgatt 60

atgaaatctc cccgcagatt ctgctacata aagaaagcca ggctgatcaa attgtacaag 120

aaacccgact gtgggatgaa tcttctcaga aaacttttac aatgcgaaaa aatgatggac 180

ttgccgacta tagatatttt ccagaacctg atcttcctga agtagttatc actagtgact 240

atattaatga aatcagcaag tcaatgccgg agcttccaga agcaaagcgt atgcgttatg 300

agaatatggg acttagcatg caagatgttc tgttccttgc taatgatgat aatattggtc 360

atttctttga ttctactctt gagcatggtg ctgatgcaa 399

<210> 36933
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H2

<400> 36933

gcgagaggag gatggcagcc gaacaggatc atggtagtgg tggttaagca tcagcatcgg 60

cgacgaggac gacgctgaga ggcttctccg ttcttgacgg tactgtcacc gatgcggagc 120

catcacaatg ggacctctgt ctccgctcag gggtatccct tcgccagcat tctacaattc 180

tgctgcgtca ctgctgatgc tgtccaagtc gctcttcctg tactgctgaa cacagaccta 240

tacttgatcg gatacatgct ctctgaggga tttttcatta gacaggccct gtg 293

<210> 36934
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H3

<400> 36934

cggacgcgtg ggataaaaat cgccgtggag gcgagtcgcc gccggcaccg tccggcacgg 60

gcttcttctc cggcgaaggc ggagctcgtt acggggattc cgcatccgtt aatcggtccc 120

accggatccc tcgccgcctc ccacgggccg ggccgcgccg tggcgcgcgc gcaggccgag 180

atgcggaaga ggatggagag cgtcgacgat ctgatcgagg aggcaaagct gcgcaccgtc 240

tggtgggcgc tctgcatctt cgccgtcttc tacttcctca cgcatacaag taaatcaatg 300

tggacaaatg tgcccatgtc aatccttata cttgcatttc tgcgatatct ctccttcaaa 360

ggggagttcc cgtggaggga acaccctgta cgtaagcaga cacatttgtc ttaagcctta 420

aagaga 426

<210> 36935
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H4

<400> 36935

atttgatccg ccgcgcgcgg cccgatcgac gagcgagcct cattcacact ccgatctagc 60

tagctagcta gtttaggaaa gagaaatctg accacaggga tgcggtggcg gctgcagccg 120

gcgccggcgc cggcgctgct cctcgtcctg gccaccatcg ccgccgtcgt ggtggtgcga 180

gcggagcccc aggtgccgtg ctacttcgtg ttcggggact ccctcgtgga caacggcaac 240

aacaacgaca tcgcgtcgct ggcgcgggcc aactacccgc cctacggcat cgacttcgcc 300

gccggcccca ccggccgttt cagcaatggc ctcaccaccg tcgacgctat atctcggctt 360

ctgggcttcg acgattacat ccccgcgtat gctggcgcga g 401

<210> 36936
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H5

<400> 36936

ccggcccaac cctctcgttc gccaaggctt aacatgacat ggccccttgc tttaaaatct 60

catttctcaa aatgactctg gggcctcttt ttcaaaaact tttccctcct tcttcctact 120

gtcaccgttc cgcaacaagc acaaagtgat tgttctgtga gcacaaggta attaatttgg 180

gaagagaaga atattatggc gcaacacaat tcatactttt gggttttccc ttttagaata 240

tatttacaca cacttttcct taattccttc cttcctattt tagatgacct tgcctttaac 300

cacccatttt aaagcttttt tttgcccaat gattggtggt tggccctttg ggtttggacc 360

ctaactattt ggggtgatat atattgggaa acttttggt cc 402

<210> 36937
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G11

<400> 36937

tgtcaggcca cgcgactgct tttattgcaa ttgaggactg tggcataaaa tctagagctc 60

agagattgtt gagtagcatt accaattcac ttgagacggt actgaaatgc aacgtggaag 120

tcaagattgg tccactagca gaattgatgg acggagaagt aacattagag gctggtgcta 180

atgttaggaa gatacgagtc tgacgtcttg agttgctcat caaacagtga ccgactaaag 240

ggagctttag attcaaggag aagctctggt catactgatg aagtaaagaa agaactggag 300

acgtacaaag aagttcccat ccagactaca aaagaaccaa caattgacga ccagcgactg 360

gaaagtgcat ggcttcaggt tactgagaag cacacacctt gtctggtgga tcaggcacta 420

cacgatcaac a 431

<210> 36938
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E4

<400> 36938

ctaggaggag ctttgggtgc caaagctgca gaagatttga agctgagaat aattgaacat 60

aatatcttgg ttgtgtctaa gtactattcg agggttacca taaagaggct tgctgatctg 120

ctctgcctga gtttgcagga ggcagagaag catctttcag acatggtgaa ctcaaaatct 180

ctgactgcga agatcgacag gccgatggga gttgtgagct tccgagtagt tcaggactgc 240

aacggcacac ttaactcgtg ggctacaaac ctcg 274

<210> 36939
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E6

<400> 36939

cgccgatcga cgccggcagg gacgtcggca tcggcctgcg ctacgactgg ggcaagttct 60

gcgcgtccaa gacgttctac gacccggcaa agcgccgccg cgtgctgtgg ggatgggtcg 120

gcgagacaga ctcggagcgc gcggacgtgt ccaagggatg ggcgtcgctg cagggtatac 180

cccggacggt gctactggac accaagaccg ggtagcaacc t 221

<210> 36940
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E7

<400> 36940

cgccgatcga cgccggcagg tacgtctgtt tcggcctacg ctacgactgg tccgagttgg 60

gcgcgttcaa gacgttctac gacccggcaa atcgcctccg cgtgctgtgg ggatgggtct 120

tcgagacaga ctcgtagcgc tcggacgtgt ccaatgtatg ggcgtcgctg cagggtatcc 180

ctcggacggt gctactggac accatgacgg gtatcaacct gcttcagtgg cccgtatacg 240

atgttgagac tctgagcacc agctgcacc 269

<210> 36941
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E9

<400> 36941

cggacgcgtg ggctgaaaca gcccgtcacc taccattcga cccgccgcga cgctccctgc 60

gcggaacagc ctgcgttgct cgcccacacg acgccacgca tgcaggagga gccagggcgt 120

cgtcccgtgc cgccgttcgc gggcgtggac ctccgccgcc ccaagggcta cccccgtggc 180

ggttgccaag gaggagaggc cggcgccggg cggcgacccg tgcccgcggt gcgggtcgcg 240

ggacaccaag ttctgctact acaacaacta caacacgtcg cagccgcgcc acttgtgcaa 300

gtcgtgccgc cgctactgga ccaagggcgg gtccctccgc aacgtccccg tcgggggcgg 360

cacccgcaag agcagcagca gctcctcatc atcctcggcg gcggcggcgg cgacgacgac 420

gacgacgt 428

<210> 36942
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F1

<400> 36942

aaagcaggct gcgaagaagg ctgctgttat gccaatgcac aaggggggcta tccgttggaa 60

caagccaagg taaacaatga tgttctttta ttgcttatga gaaagtttac tgcattcaag 120

gggttgttca atttattgag tcatgcacct tggattatat tggctgagaa tgattgtgat 180

gctggtgttt acatggaact gccttaactt ctctggttat acacacacaa gcttataaag 240

aacaatcgat ttcatattct tgtggcacaa ggcctgtttt cttggttgaa ctgctacaaa 300

tatatggtga atatagcata tgagccttga agcttcattg aaaggtattg cccttctctt 360

tatctgcttg tgcctgacat ttttctatgc agtttcatgg tgtaatttat agctgctgga 420

tgagtgttat tttggaca 438

<210> 36943
<211> 295

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F10

<400> 36943

cggacgcgtg ggaagcaaac tataagtttg ttgtattgga tactgggaat taccagattg 60

attcaatgga tcctgataag atgcttcagt gggaagatat tatctgtgta agatactata 120

gcccttctga ggtacaatgc cctatttgct tggaaagacc attgtgccca cagatcacat 180

catgcggacc catatattgc tttccatgca ttttacgtta tctaatgatg ggcaaagatg 240

attatagagg tgagtgttgg aagaagtgtc ctctgtgttt catgatgata tcatc 295

<210> 36944
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F11

<400> 36944

attccgtctc attctcatcc ctgacccccg taccgcaccg taaaccctaa tccccggcgg 60

cgacccttgg ggcctccgtt gtgctctacc tgtgccccgc ttagacgagg agctgcggcg 120

gccaagacca atcgaccatg gctacccgga tccagtttga gaacaactgt gaaattggtg 180

ttatctccaa gctgacaaat gcttactgtc tggtagcgat tggagggtca gagaacttct 240

acagtgcctt tgaggctgag cttgcagatg ccatccctgt ggtcaagacc tctattggtg 300

gcactagaat cataggccga ctttgtgttg gaaacaagaa tggacttcta ttgccacata 360

ctacaaccga ccaagagctt cagcatctga ggaattgctt gcctgatcaa gtggtggttc 420

agcgcattga t 431

<210> 36945
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F12

<400> 36945

cccacgcgtc cgtccacgcg tacgcccacg cgtccggttt ccctccgctt gccgagtgcc 60

gcgcgggagc acgcgcccat ggcgacgcct gcgacggcgt cgacggcgta cgcgcttccc 120

aagtctgggg cggtatacaa gggctacaac tttgcatcca cttgggaaca gagcgcgccg 180

ctcacggagc agcagaaggc cgcgatcgcc gcgctctccc acgccgtggc agag 234

<210> 36946
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F2

<400> 36946

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgga cgcgtgggct tcactctcct 60

ggtttattcc tccgtgccga tctcgtcttc tccggcggga ccatggcgcc gtcctcctcc 120

cgattcgacg atccggcggc ggtgaggcgc cccccgcagc atgaacggaa gccgccgtat 180

atgttgcttc tcccgctcgt ctacgccccc gtcctccccc tcatcaggat cgggctgcgg 240

cacaatcccg tggtgaggga ccgcctcttc tacggcgtcc tcgccggcgc attcgcccac 300

ggcgcctacc tcatatc 317

<210> 36947
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F3

<400> 36947

tggcgctttt acactaccta tgctagtttg cctgatgcta catttccacg atggttaagc 60

tgactatgat agcgcgtgtc actgatggcc ttccattgtc ggagggatta gatgatagtc 120

gggatctgaa agatgctgac ttctacaagc agcaagcaaa actgttgttc aagaacttgt 180

ccagagggca gcatgaggcg tcaaggatgt caattgagac aggaccatac cttttccagt 240

atcctaagac ctttttctca tttgcaaaat tctttgttcc acaattaatc atttagaaat 300

atatgtgatt cttcatcatg atcctaaatt agagtttttg tgaactggca agtttaggca 360

gcctaaccat ataccgtaaa cttgaccagt attgtgtata tattggattc aatatt 416

<210> 36948
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-F4

<400> 36948

cccacgcgtc cgcccacgcg tccgggcagg gcaaaaggcc cgatcccccc tccccgccgg 60

ttgccgcgct cgtgccacgg tgcgctagcc ccgtcgacgc cggcggacag cgtgcactat 120

gggttgctcc tcctccgtgc cagctagaaa tactggaggg ctgaacacta tcagcaacga 180

tagctctcca gacgccagtt caaaggactt gcgtgctaag ttggtattgc tgggagactc 240

aggtgttggg aaaagttgca ttggtcttcg ttttgttcgt ggtcagtttg atcctacttn 300

caaagtaact ggtggcgcat ccttttttatc acaaacattg gcattggagg attcaacaat 360

agtgaaagtt gaaatttggg atactgctgg gcaagaaaag tatgctgcct tggcgccact 420

ttacta 426

<210> 36949
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F5

<400> 36949

caaaggcgac gtcgccaacc aagtgcttgt agcgcagatg ttcttctcgg gttatggaac 60

ccccaagaac gagtataagg gaaaacaatg gatggatagg gtgtcaaggt tcaggtcttc 120

agctttgaag gttggcatga aacgtccagg atacaatgca agtgactcgg actccgatga 180

tgccaaccaa tgacagtcag ttacaaattg agttattatt agttaggaga ttcacatggt 240

aagaaagttt ggtataagct gttgctcacc ttttcatgat ttctaatatt cccctaacct 300

tggtttcggg acttcaagat tgaattactt ggtggtttat gcatttatct ctacgttgaa 360

tcactgtcac actgagcttg tggtgattag 390

<210> 36950
<211> 416
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F6

<400> 36950

cccacgcgtc cgcaaccttg ctttctacca agaactttgc agggttcaca atgctgctct 60

tactgcacaa ccagctttgg tgcaggatga gaggaagctg cttgagaaaa tcaatattct 120

ttgtctgatg gagataatct ttagtcggcc atctgaagat agaactattc cattaagtgt 180

tattgctgag cagactaagc tttcaatcag tgatgtggag tatctcctta tgaagagcct 240

ctcggttcat cttattgagg gaataattga tgaagtggac agtacagttc atgtttcgtg 300

ggtccagccc agagtgcttg gaatcccaca agttaaagct ttgcgcgacc gcctggatgc 360

ctgggttgga aaggtgcata ctacattggt ttcaattgag gcagaaacac ctgatc 416

<210> 36951
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F7

<400> 36951

caagttgtag ttggtcctcg ctagttgcgg ccatttgcga gagttgccag actccctgac 60

gacacgctca atcacgacat cccatggaca acgtgtgtca tgggttcgcg agtggcaggc 120

gttgtgggtc catgcgacac gacaacgaac ggcttggcga tggtgtgcgt ggtagggtct 180

tgtcatcgga gccatcacct ttgctagatg tacccgtctt gtctgtgccg gtggcgtccg 240

gctatggctc tgacttggtg acaccatggt ggcgcaaggt cctcacatac agctccaatg 300

cgagttgtta ggcctcgacc cgacgttata tgcaggcggc gaggacgaga gctcaatgaa 360

tagcgagttc aacgccacac caacacaagc tagaacactt ggaacacgaa cgggtttggt 420

gct 423

<210> 36952
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F8

<400> 36952

cccacgcgtc cgcgtgaaga gactgcagga gaagaagcat atcgttggta tgactggaga 60

tggtgtcaac gatgccccgg ctcttaagaa ggctgacatc ggtattgctg ttgcggatgc 120

tactgacgct gcgaggagtg cttccgatat tgtccttact gagccaggtc ttagcgtcat 180

tatcagcgcc gtcctcacca gcagatgcat cttccagagg atgaagaact acaccatcta 240

tgcagtttcc atcacaatcc gtatagtgct tggatttatg ctcattgcgt tgatctggga 300

atacgatttc t 311

<210> 36953
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E3

<400> 36953

aaaaaatctt gacactttat agtacagtca acagtcatta taaagggaat aagcatacaa 60

gccttagtca tcaaacctat ttctttattt cgtagctgca tccaccaact tatagtgaaa 120

tatcttaatc caccaaagat atttttcctt attggtccac atatgaacat agcagtggca 180

tccatataca tttccaacat ttgtgtcact gaaattcata ataagaata taaagaggaa 240

atacaatatt taccaaagaa gagtttgttg tcacttttag actggagtat ccgagcttgc 300

agggtcttgt tctgaaaaaa ttataactag cttatcatga tccaaaactg tagttttaaa 360

gtagactaaa taaaaccaag attaatttga gaaacgacac aaaacaaatt ttg 413

<210> 36954
<211> 159
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G10

<400> 36954

attcgaagtc cttggttctc attttaaaac aggcattatg gcaacttctg tgggttattg 60

catcctagtg tactcagaaa gtgtcaccca acccttcagg ccttaaaaag ttgtcagtgg 120

aaaatgtcag gactagagct agggttgggt aatctgaac 159

<210> 36955
<211> 321
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-C3

<400> 36955

tctccattcg cgaaaggctc gcagcanaac cacgccatcg atcgccgtca ccagtccagc 60

gtcctccgat cgactacgta ctcccaccca ctccggcagc agcgaggcct ctctgtctgt 120

gcgcggcgtg gctgtcgtcg atctctgcct ggcgggcggc cggcatgggg aggtccccgt 180

gctgcgagca ggcgcacacc aacaagggcg cgtggaccaa ggaggaggac cagcgcctcg 240

tcgcctacat caaggcccac ggcgagggct gctggagatc gctaccaaaa gccgcaggtc 300

tgctgcgctg cgggaagagc t 321

<210> 36956
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C4

<400> 36956

ccctgctcca ttctcagccg ccgccaatcc cttcccgtgc tccgcaaccg ctgagtgaga 60

agaagagatg gccggcaagg gcgatggccc ggctatcggc atcgatctcg gcacgacgta 120

ctcttgcgtc ggcgtgtggc agcacgaccg cgtcgagatc attgccaacg accagggtaa 180

ccgcaccacg ccctcgtacg tcgccttcac cgactccgag cgcctcatcg gagatgcggc 240

caagaaccag gtcggcatga accccatcaa caccgtcttt gatgccaagc gtctcatcgg 300

caggaagttc aatgatgcg 319

<210> 36957
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C5

<400> 36957

gtttgtgagg cgttggctcc cttccccact gcttcctccc cccactgccg gtcgctgtgc 60

aagagctgcc acgagacagc agattcccca tcatccaaag cgaggtgaga ttcttgctga 120

aagatcggac ggagggagta gaatcgcggg gggcgtggct gtggttgcca gtcgccatgc 180

catgatgtgt gtagggtcca gccaccggag accggagttg ctgatgacga cttggcgatg 240

ctgtggtttc caggctgtag gggaggagag gaagcaggaa tagcctaaca ggggtataga 300

tctcaggaag ctccatgcgg gtgag 325

<210> 36958
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C6

<400> 36958

ccagggtcca cttcgctcgc aaccttcccc agccatggcg accgcgacgc ggaggctgct 60

ccccgcgctc ctcaagaccc tagctccagc cggcgcgcgc ggcctctcca ccgagaaggc 120

tgttggtgca gccgccgtcg tcggcagcca caccgctaag tggatgcagg acacgagcaa 180

gaagtcgcca atggaactga tcaacgaggt accttcgatc aaggttgatg gtcgcattgc 240

cgtctgtgaa ggggc 255

<210> 36959
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C7

<400> 36959

ggcaactgga tcttcgtcgg aatcatagcc gcgacggtag cgttccaggt ggtgatcgtc 60

gagttcctcg gcacctttgc gagcaccgtc ccactcggct ggcagctgtg gctggtgagc 120

gtcggcctcg gatccgtcag cttgctcgtc ggcgccgtcc tcaagtgcgt tccagttgaa 180

ccggacgatg gagttcgcgc cagtccaaat ggctacgcgc cgctgcccgg cggccctgac 240

aacatataac agctgaacct gagcggccga gaaggtactg acgacgtgct gatttttttc 300

gcgttagggg tcataac 317

<210> 36960
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C8

<400> 36960

gccagctgga tcttggtcgg aatcatagct tcgactgtag cgctccacgt ggtgagcgtg 60

aagatcctcg acacctttgc gagcaccgta ccactcggct ggcagctaga gctggaagag 120

cgtcagcctc ggatccgtca gcttgctcgt cggcgccgtc ctcaagtgcg ttccaaatga 180

accggacgat ggagttcgcg ccagtccaaa tggctacgcg ccgctgaccg gcggccctga 240

caacatataa cagctgaacc tgagcggacg acaaggtact gacgacgtgc tgatttttt 300

cgcgttaggg gtcataacag attatattat gtaaaaagag atggtggtga cgacaaggca 360

cctctatttt gatgggtcat acttagaagt ggtaatagcc tctagatttt acgctacaaa 420

ctttaaagat cgaaa 435

<210> 36961
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C9

<400> 36961

atcgagtgga gtttttgagg tggaaccaaa gagctgccca gggttcatat acagatgtac 60

ggttttcata ggccacacaa ctctgaatcc cttggaattt cgagaattca ttcagaggat 120

ggcctcagaa taccatggag atacctacca cctcatttcc aagaactgta accactttac 180

agatgatctt agcaccagat taacaggaaa atcaattcct ggttgggtca atcgacttgc 240

aaggctaggc gccttttgca actgccttct accagaaggc ttgcggcttg agtcaactga 300

aacaaagcat cttggagact gtcgtttctc agatggttcc aataccacca gcaacgataa 360

ctctgacgaa gatgaattgg aagaaaaaca cctgcttccg actact 406

<210> 36962
<211> 336

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-D12

<400> 36962

tttccaatct ttggatgtca tggactactc cctttgggtc ggggtcgcca aaaagaaaaa 60

ggacctgggg gttggcataa tcgatttcct gcggcagtcc acctgggaca agcagctgga 120

gacatgggtg aaggcctcgg ggatcttagg gggccccaag aatgagtctc ccaccgtgat 180

ttcttcaatc cagtacaaaa agaggttcan gaaggccatg tcgaggtact ttctcgncgt 240

ncctgaccaa tggacctcga aaggcggtta aatcttctcg ctgnttttta gctgcatctt 300

ttttgtcagc gaaagcttca ctcgttcatc cttggc 336

<210> 36963
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-D2

<400> 36963

ccagggtcaa gctggccagc ctcgtccccc gtccaaaatc tgacgaataa tggtgatgca 60

ggaccttaat tggcctttaa tttggcctat caaggatgat gaagatgaaa cttcttacaa 120

aactgacacc accgaagttt aattattttg aggttcttac actaca 166

<210> 36964
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-D3

<400> 36964

gagcaagaga accctggctt caccaggatc aggaccatgc cagcactatg taaatgaatg 60

cactaccagt acacagtcga ctgataatca cccagacgac ctacccgctc cgagatctcc 120

tgaacaatcc gcgtgatttc agaatgacaa cgattcgggt tcagtaggca tttgtcaaag 180

caacacgcga agaagtatat atgaactctg cggtaagctg cagagtttca aagtttccag 240

cgccgtataa ggaagctacg tagctatggg tgcaccttgt ccgaagcctg tggacagcac 300

gagccgatct gcagtcgcgc tgctcacgaa catagagaac acaactgct 349

<210> 36965
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-D5

<400> 36965

ggagaggtgg gggatggcga agccgacgcc ggtggcctcg gcagaggagg cggcggcgat 60

gcggcgccgg ctgaggcgcc tggtggccgc ggtggcggcc gggagcgccg acgccgaggc 120

cttcgacgag gctgcagagg cgctcgccaa gctcagggac gccgagcttg gcccccgcaa 180

ggacaggacc ggcgacggcc gggagaacaa gcgcagcacg gaggccgccg tgccggagca 240

cttcctttgc cccatctcct cagagatcat gagggatccc gtcgtcctcg ccttcggcca 300

gacgtatgat cgtcgtttca ttcaagaatg gttaagcgct ggaaaccgga catgcncaca 360

gactcaacaa gtcctttcga aacacattat caccccgaac caccttgtga gaagcatgat 420

ctcacagtgg tgcacagaca acgg 444

<210> 36966
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-D7

<400> 36966

ggggatgggc ggcagcacca gcctgggacc ggcggacaac accctggacg ccgccgcggg 60

gggcctgctc cccagcgccg tatccctcgc cgccgccgcc gccagcctct acttgctcgc 120

cctgctgcag cattgattac gtgctctagc tgctagctat gcggtccgtg aaaaagaaag 180

ggggcacagc ggatagtact ggagaatgtg aatcggttcg gttggctgca ggacggatcc 240

gatttcactt cacccatctt 260

<210> 36967
<211> 264

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-D8

<400> 36967

gttctgtgga tataaaaata taacatcgtc cgcgctctgg agagtctgga tcctgctgga 60

gctccaagca gcaagcgatg aatggaggga cgcaagcaat tagcctgatg gtgcaccttg 120

ctgtgccatg gctctgcctt gcttcttggg cagctctgct accagcgcta ctagcatctg 180

gaaatgtggg tgcagcagct tcgacactga gagcagagta catgaatttg aacttcagca 240

ccgcttcggc aaaccccgac aagt 264

<210> 36968
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-D9

<400> 36968

actaaccaag tgctgcatca ctataaacat taaaaaatta ggacactatc tttctcacta 60

gtacatttgg atactattac cccacaccat cctctactat tacacctcca tattacgata 120

catcatacaa ccatctatac aagacactcc ttttcgttcc acatcctaca ataacatcct 180

atccctatct ttctacatcc ccctctaact ctctctcttc aacctcttct ccatcatgct 240

tacccaa 247

<210> 36969
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E10

<400> 36969

acttggcgta tccttgcctg acatgtctag tctgactatc aatgggaaaa ccttacttag 60

agcttgcaga gcacttgatt ttacagcacc aagtgcatca tgcacgacca ctagatttct 120

agctgctcta tcaatgggca aacacttgat ctctgaagag cactcgatct gtacggcatg 180

gcacattgga gtacaacatt gaaatgctct gaaacaatga tggtccttca gaaataacta 240

gcaccgatgg 250

<210> 36970
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E11

<400> 36970

atgctgctgt cgcatccaca gaggacctgc tgaagcccag ctcaacatcc aagtcgccag 60

accccaggca cgacgcccaa gctagcactc aacctgcagg tacgggggtc tccatgaagc 120

cggaaccggt tattggagtc tcaacaatca agaaagagga ctcctccttg acagaaggtg 180

aggttgatgg cggcaccgga agagtgcctg gagaaacttg ggtgcgatca aagccaggct 240

caaatacctc atgcagggca cgcggctgga acatgagcgc agcgccacct tccgtgggta 300

gtcaggcaga tgaagctgca tcaaaggtgc aacttcacgc aggggtttag ggtttagggc 360

catctaacgc ctgttgtggt tgctgaattt tgtgtcctgt ggttacaggt attattgtcc 420

tgaataatga 430

<210> 36971
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-C12

<400> 36971

cccacgcgtc cgcccacgcg tccggccatg acggagctca tacggaagcc acacctgatg 60

aagaagctgc aggaagaagt gcggcggaac gtgccggcgg ngcaggagat ggtcaccgag 120

gacaatctgc ccggcatgac ctacctcaag gccgtcatca aggagacgct ccgactgcac 180

ccgccggtgc cgctcctgct tccgcactac tccctggacg cctgcgaggt cgccggctac 240

accattccgg ccaacacccg cgtcgtcgtc aacgcctggg cgctcggccg acacagcggc 300

tactgggagc gcgagaacga gttcgtcccg gag 333

<210> 36972

<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-E12

<400> 36972

ggagcaaccg cttgcgtcac acgcacactg tcgggaaaat gatcaactga tatctggtca 60

tgggaaaccg tgactggagg aagttgcttc cggtcgtcac cgtctgcgan gagcacggcg 120

ccggatgcgg cgaaggaagt ggcggagaag ccggaggagg ggaagaagcc cgacgaggag 180

ggtggcgagg ggaagaaggc cggccccgcc gccgagaagg agaagaaggc gaggaagccg 240

cggagcaaga agcccaagtc cgacgggccg caccacccga cctacttcga gatgatcaag 300

gaggcgatcc tgtcgcacga ctgcgggaag gtcggngcga gcccgtacgc gatcgccaag 360

cacatggcgg agaagcacc 379

<210> 36973
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E2

<400> 36973

gattttcttt atctgaaatt gaaaatgcta ctgacaaatt tgagagaaga attgggtctg 60

gaggctttgg catagtatac tatggaaagt tggctgatgg gagagagatt gcagtcaaac 120

ttctcacgaa tgactcgtat cagggaatca gagaattctt gaatgaggtg acattgcttt 180

ccagaataca tcatagacac ctggttacat tccttggtta cagtcagcaa gatggcaaaa 240

aacatactag tgtatgagtt catgcataat gggacactaa aagagcacct tcgtggagct 300

gataatgaaa aagataacta gctggcttga accgtttgag aatggcgaag attctgcgaa 360

aggtatagag tatcttcaca ccggatgctt cccaacaatc attcatagag acctgaagag 420

cagtaacatt cttctagaca agaaca 446

<210> 36974
<211> 353
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-A8

<400> 36974

gttgacttgc aagattatga ttactctctg gacatgtgga gtctgggctg catgtttgct 60

ggaatgattt ttcgtaagga gccatttttt tacggtcatg acaaccatga tcaacttgtt 120

aagatagcca aggtacttgg aacagatggg ctgaatgtct atttgaacaa gtacagaatt 180

gagcttgacc ctcagctcga agccctttgt ngaaggcata gcanngaaac ctggacanna 240

gttataaatg cagacaacca acacctagtg tctcatgagg ccatagattt tctcgacaag 300

cttttgcgtt atgatcatca ngacaggctt actgcacgtg aagctatgac aca 353

<210> 36975
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-B1

<400> 36975

agccaccgat cggcgtgccg cgtgcgtgag gcgatcggag catcccgtcc cgaggaggga 60

gacaaccggc gacgcggggg gaacatgggg aagacgccgg tgcggatgaa ggcggtcgtg 120

tacgcgctgt cgcccttcca gcagaaggta atgccggggc tgtggaagga catcaccacc 180

aagatccacc acaaggtcac cgagaactgg atctgcgcca cgctcctgct caccccgtc 240

gtcggcacct accaatacgc catgtggtac aaggagcagg agaagctttc ccacagatat 300

taaatgcgct gcccttgaca gacagcactc ggagttttca tgatgggttt cataatcctc 360

ccatgatgat ttaacatttg tttgatcaat ttcagttcaa cgccttttca tcgttccata 420

tgcatatatg gtatacgtgt ctggcaaact t 451

<210> 36976
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-B10

<400> 36976

gtcgtcccca atcgtcgccg ggagtctccc gatccttctt ccaccacctc taccggtggt 60

gccagtgccg gctcgcggac ggtgcttgga ctgcccccgt cccgtcatgg atcgcgccga 120

gctcaccacc gaacaggttc tgaagcgaga tattccatgg gagcattaca tgtcaactaa 180

gcttatctcc ggaacgtgcc ttcagctctt acggcgatat gaccacaaac cggagagcca 240

gcgagctcct ttgcttgagg aggatgggcc agcatatatc cgagttttcc tgaatatcct 300

gcggagcatc tccaaggaag agactgtgga atacgtgc 338

<210> 36977
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-B11

<400> 36977

gccacgcgta cgagccaagc tccacttcac cgacacgctg cgctcgagcc cgcccgagcc 60

gcccgctaga tccatggcgc ggctgctccc gtcggccgcg gcagcggtca tcgtggccga 120

cgtcatgatg gcggacctgc cgaacgccca ggcggcgtct gactcgccgg ctgcagacga 180

cgcgccgtcg ggcacgaacc acaccgttgg ccgcggatac gagcggttat tggacggcca 240

cagcaacgcc ttgttcgagg actactgcga ctggtacatc cgcgagacct tgtacctcgg 300

ggacaacctc attatcgaga cgaacgacaa c 331

<210> 36978
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-B12

<400> 36978

agagaaggaa aaatatcccc aaaccctagc tcccgatctc gatggcgaac cctcgcgtct 60

gtcttcgaca tgaccgtcgg cggcgccccg gcgggccgga tcgtgatgga gctgtacgcc 120

aacgaggtgc ccaagaccgc ggagaacttg cgcgcgctgt gcacgggcga gaagggcgtg 180

ggcaagtccg ggagccgctc cactacaagg gctgcacctt gcaccgcgtc atccccgagt 240

tcatgtgcca gggcggcgac tttacccgcg gcaacg 276

<210> 36979
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-B2

<400> 36979

gaggaagctg ttgccatggt caagcctatc caggaccccc aggaagcagc aaacaagctt 60

ctcgaagaag cttcccgaag gggaagctcc gataacatca cagttatcat cgtccgcttc 120

atagacggaa ctaccggtga gaaatcaggc gacgacaaag agaccaccaa cgaccaacac 180

tcctagctgt ctcgtgtagg gatccatcgt gctgtgtgtt cttctggctg ttgtacctga 240

tgctcagagt agacactggc tgctgctccg caaggaaact gactcccccg accgncgttc 300

atgctcctgg ctggctcgct ggccgnctcg acgggaacgc tgccgcagaa tgacgactgg 360

ggctggtgtt gntgttacag tatggtcctt ttctttcttt ctttctttcc cctttcatcc 420

attaagctct gtgatgtaa 439

<210> 36980
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-B3

<400> 36980

cccacgcgtc cgcggacgcg tgggtggcgt cggaggtgga ggacgaggcg gcgacgccgc 60

tgctcgccaa cggtgcagcc gacgtccgcc ggaggaggga ccaggcgaag gcaattctgt 120

ccacgcaggc cgtcaggatc gccaccaagg ccgagcagca tgagcgcttc atctttaagg 180

tcacacactt gctgggtgtt cttggatttg ggggattttg ctatctcttg ggtgccagac 240

cacaggatgt gccatatgtg tactgcctgt tctatgtcat atttgttccg ctccgctgga 300

tttactaccg ctacaagaaa tggcattact accttctgga cttctgctac tatgccaaca 360

cctttctnct tgtaatgatt ctcttcta 388

<210> 36981

<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-B4

<400> 36981

atccgtgtcg cagtgccacc catcgatcca caggtcgacg ccggtgtgtc ttgccacctt 60

tgccacaaat caatctgcag gtctgtgttc ttatcttccc ttcttgcttc tcaatctgtt 120

gactgccaca actncggtct tgttagatcc catggcagcg accagtgagt tcaaatgttt 180

ctgcttctac atctactgan gccagtggca gcgaagactg gctggaggga atggtcacag 240

aatatcttgt tgagacattt gctgattact tcggtgacgt taaaatgtat attgaagaaa 300

gaccatttcg aagatttgtg gaagcttgca tagaagaaac aatcgtggtc tatgttgatc 360

atctnctttc ccagaaagtt gaaagtagaa tgcggattct ggcagatatg agagatctag 420

cttcaac 427

<210> 36982
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-B5

<400> 36982

cccacgcgtc cggccagctg cagggcacct agcgcgtggt cggcgagcgc gcgggcgggc 60

ggcaggggcc gccgcggcgg cgagcgcgca ggcccccact cacagacgac tgggccggcc 120

ttcactgcta cttcggcccc ttcgtcgccg acgagaacca ccgcgtgctg gttggaatgg 180

caagtacagc atgctttgtg attgtcagta agaatgacat cccaatctat gaggcagaag 240

ttggatctgc acccaaaaaa gaagatttgt cttatcacca tcagtttatt ctgcatgctg 300

cattagatgt tggtcaggat ctagcatgga caacaaatgc aatgttcctg aagtcagttg 360

atagattcaa tgaccttgtg gtgtctgttt atgtaactgc tggtcatacc cagatcatgc 420

tgcttcatga ctcgcgtanc gaggatgga 449

<210> 36983

<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-B6

<400> 36983

tctagatctg tcagctcctt ccacaaatag cctaatgaca tcatttcaac acaatcggga 60

taggcatcgg cctgtgtgca tggaggaact ccataaatcg ctttccatcg tcttattcat 120

cacttgtata gctggagctg tagcataccc tgatggttct gaattattgt cccataaggc 180

aatcccacag ccgcaggatt ttccaagtga gcagctatat cgctcctacc tggtaatcca 240

gcgcttcaag agcacaatta ccagcgaccc caagaacgtt accgcattct ggatcggcaa 300

tgatatctgc ggagaagcga cctacgtggg tttctactgc ggagtactgc ctgggcgaag 360

taacaagctg acagtcacag cggtcatttt gaatggatat agactacatg caccga 416

<210> 36984
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-B7

<400> 36984

cccacgcgtc cggtgggcct cagcgacgac agctatgcga gggggccgta tgcagcggcg 60

catccactgc agttgagagg gtgcgcgaag aaggcgatct ctccccaaga cgcggctgac 120

gacatagtgc atctcggcgg ccagccgtgg aggcggggtg ctcgtcagac tgtgttccat 180

cttatgataa accctgacga tgtcgaggaa tgtggaggcc tcgttgctga tcgaggagcc 240

gccgtcgccc gaggtcggag agggagtgga tggtgatgaa ggggacgtcg tgctggtgag 300

cga 303

<210> 36985
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-B8

<400> 36985

gctagctagt tcgggcagcg agcggggtga gacggctatg gcgtgctgct ccgccgtcct 60

gcaccatccg ctgggcttct cactcacccc gtgctccgcc tcccgagccc caccgcgcat 120

ccagcgcgtg ggcgtggcaa ctacctcggc cgnctncgcc cgccctcttt ctcgcgccag 180

gatctcaccg cgctgcacct actccggtgg cgccagcgct gcccctggtc ctggggagct 240

acccgcggcg gcgctccgac gggtccttga gatgccgggt gcgcaccang cgcncgnctg 300

ctacgacgcg ctgagcgcac gcctcgtcga gcgcgccgag ttcagggcct gctttacgag 360

cgggttctca atctctgccg cacggctttg gattaccaga tgttggtctc atctcgtacg 420

gggaaatga 429

<210> 36986
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-B9

<400> 36986

gaggttgtcc taaaaagatg ctggcttgca cgctattggg gcttagcagt tcaaaatggt 60

gtgtatcccg aaattgcggt atcaaagcat gaacattggt catcattggc tcctcttcct 120

cttgaggttg ttctttccgc cggtcaaaaa gctaaggagg aacctcgaaa acaaggtgac 180

aatgttcaag ggagaaataa acttgcacga gaaatgagtg atgtaatggg agaaggcaat 240

atagagagca tgctttcagt tgaaatgggc cttagagagc tttcttcatt gaaggtggaa 300

gatgctgttg tagttgcagt tggccaacat cgcagaccta gcatagttcg tcagttcaca 360

tcagatttca aatcacctgg tgaacctaaa tacttggagg gcattgatct 410

<210> 36987
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C1

<400> 36987

cccacgcgtc cgcgacgacc gcgtcctctg ctgcggcctc gacctgctcc acttcttcac 60

gcgcgactcc tccttccagc cggcggaccg cgccgccgtc tcctcctcgt ccccgctctc 120

cgccggcgcg agcaggccgt cgtgcacgcg ccggagcctc gacgccgtcc aggccccgcg 180

ctggatcgag ttctggagcg acgccgcgtc cgaccgccgc cgccgcgact cctcgtcctc 240

ggaagcctcc accgcctcct catcctcctc gtcgtcgtcg tcaggatgcc catcgccacc 300

ccggcggcca accccgcggt gggtcgacag ctacctcgac gagctggggt caatgctgaa 360

ggaagggggc t 371

<210> 36988
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C10

<400> 36988

gatcaccggt cgcctccctt ccgctcccct gactgcctaa tccctacggt caccccgaaa 60

gcgctcggtc gctcgctcgc tccccgcgcc cagagacaag cccggagacc atggcggacc 120

agctcactga cgaccaaatc gacgagatca aggaggcctt cagactcttc gataaggacc 180

gcgacagctg catcacaacc aaagagcttg gaactgtcat gcgttcactg ggtcagaacc 240

caaccgaagc tgaacttcag gacatgatca atg 273

<210> 36989
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C11

<400> 36989

gggtgcttcc cgatctacct gacgctgtac cagacctcca gcgccggcga ctacgaccag 60

ggcggctgtc tgaagcgctt caacgcgctg tcggcgcagc acaactcgct gctgcaggcc 120

aaggtgtcga gcctgcagag caagtacccc ggcgcgcggg tcatgtacgc cgacttctac 180

agccacgtgt accgacatgg tgaagagccc cggcagctac gggttcagca ccaacctcag 240

ggcctgctgc ggcgccggcg gcggcaagta caactaccag aacggcgcgc ggtgcggcat 300

gcccggcgcg tacgcgtgct ccgacccggc gtcgtcgctc agctgggacg gcattcacct 360

gaccgaggcg gcgtacagga aga 383

<210> 36990
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G9

<400> 36990

gcgtcacgcg acccccctgta cttctctcta gttagtgtac agtttaaact ctaggccgcc 60

gcctcgcgct ctggtcgcct tgccccggcg cagagatggc gctgccgaat cagcaggttg 120

tggattaccc cagcttcaag ctcgtcatcg ttggcgacgg tggaactggt aaaaccacat 180

ttgtgaagag gcatcttact ggcgagtttg agaagaaata tgagcccacc attggtgttg 240

aagttcaccc tctggatttt aacactaact gtggcaaaat ttcgcttcta ttgctgggac 300

actgctgggc aagaaaagtt ctttggccct agggatcgct actacatgca tggtcagtgt 360

gccctcatta tggtttgatg tc 382

<210> 36991
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H1

<400> 36991

cccacgcgtc cgggggtata actgatgttc ttaggctatc tccagcagcc tctctatccg 60

atgctctatc ttactcccta ttttaaattt tactctataa acagtacagt ctatagtgta 120

tgacaatgtt ttgcatgttt atatccacac tttgctggag atgggcatgg tagtctgttg 180

gtgaccaagg aagctgtgat atctgtggcg aggtgccctg ctagaggctc ctttaatggg 240

tgtacaattt tcgaggtgga aagaagaatg ttcgatcttg atctccatag caacagtgtc 300

atattatcta tcta 314

<210> 36992
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H10

<400> 36992

ggaaaatggg ctgtgataag caaggttatt ttaccttggt atgcattaca tactgctatt 60

caagtgttca atgaagaacc tgctttagtt ctaatagtaa aaatttgttc tatgctttca 120

agtgttgact aatacatgtt tttatgttat caggatgaat ggagaactgg cttgaaagct 180

cttcgagctg acagtattag taaactgaag aaagcatttc cagaactggt ccaagaggtt 240

acaaggccat ccaatttcca ggatttctac atatatgcat ttcgttattg cctcacagag 300

gataagaaga aatgtataga aataccagtt gcttgtgagt tgctgaatct agtattaggc 360

ttgcagttcc gccctcaggt tgacaagctt aataattacc tcatgtacca aaatgactac 420

aaggtgataa caatggacca gtggat 446

<210> 36993
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H11

<400> 36993

gttctcgaca gaacggaaag ctattggttt ttgtgcggat agaatttaag ccttttttac 60

gtggtgcacg ttgtgaagta attgctttga gtctcttgtg agctggttta accgttaaaa 120

aaaaaagact aatacataaa aaaaagaaat aaaaatgaaa taaaaaactg gcttgaaagc 180

atattaaagc taaaaggatt agtaaactga aagagagcgt ttacagaact 230

<210> 36994
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H12

<400> 36994

gccacacgtc cgtagctaag ctctttgctt acaatcagtg aaatccatca tgattgatct 60

ggggacatgt gtgtggaagg agttgttctt actatggagg atgctggccg tatggtgcga 120

agtcgcttat gctacgactc tgcaatgact catggatatg tgagtactgc catggatgat 180

atttgatgcc tctgaatgac aagatctgat tattgact 218

<210> 36995
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H2

<400> 36995

cccacgcgtc cgcccacgcg ttcgcccacg cgtccgccca cgcgtccgcc cacgcgtccg 60

cggacgcgtg gggaagaaca atcagacaaa atgatccagt cattgacaac catcaacaaa 120

ttctttttct ggaaccgttg tagtgtacaa gagatcaagc tttggttttg tacataatgg 180

tgccctggtt agacctattt cctgactgta gttattggct tgaagtctag tttggggaag 240

gttcttgttg ccagctacct tgcagttgcg gtatttgagc agatagtgta ttctaactat 300

gcatactaat agatgaccgg cttcggtgtt tttggatatt ttatggtttg gatcaat 357

<210> 36996
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H3

<400> 36996

cccacgcgtc cgtgcattcc gaagctgctc tcggcgtcgc ccaagtcctc caggaagcgt 60

ctctacggcg accttgtcgc agccgagaag cccaagtgga atccccgaga tgccgcgcag 120

attagggctg tcaaggaggc gctgcacgtg gcaacagtgc catcgtctga attggtttgc 180

cgggataacg agctcaggcg tgtccttgag ttctgcaagg tgtgcgtcca acaggagaag 240

gctggtagtc tctatgtctg cgggtgccct ggcacaggga agacattatc tattaacaag 300

gtcaaggata gcttggtgtg ttgggcagat gagatgggaa tggagacacc tgatgcctta 360

gcaatcaatt gtacaaacct agcaaacacc tcagagattt ttggcaagat ac 412

<210> 36997
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H5

<400> 36997

ctgaactcta tttctactga agcagagcct gtgttgtatg tgtgttggga gaatgtgata 60

tgtgatgtca agctcaaact tcttctcatc ctttcatgtc tttaatatat atatatatat 120

atttttt 127

<210> 36998
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H8

<400> 36998

cattccctta cccctggctc acctccacac tctccctcgc ctgcggctct gctatgatgc 60

ttttctcatg ggccaccggt cttgttgagg cccctaagac cgacctggac ttctggaaag 120

ttcttttccc ggttgctgtg gcgcatacaa ttggccatgt tgctgctaca gtgagcatgt 180

ctaaggtggc agtgtcattc acacacataa ttaaaagcgc agaacctgca ttcagtgttt 240

tggtgtcaag gttcttcctt ggggagacgt ttccaattcc agtatatctt tctcttcttc 300

caatcattgg tggttgtgct ctagctgctg tcacagagct gaacctttat atggttggat 360

ttatgggtgc catgatatcc aaccttgcat ttg 393

<210> 36999
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H9

<400> 36999

ccgggtcgcc gacgcgttcg gctctctccg tcgaagaatc ggcttcggct gccgcggcgg 60

cgagcgcctt ccctgggcaa ggtccacccg gcggcagagc agagcctcgt tgctgaggag 120

gggagatggc aggcatgacc gatatgccga tgaggcccgc gcggacgggc ccgccgatgc 180

agcaccgggg ccctccgccg atggcgcgcc ttcgtcccga accaatcgac cgcgagaaga 240

cctgccctct gctgctcagg gttctcacaa gggttgctgg tcaccaccaa aatgaagagt 300

tctctgtgag aaggaaagaa 320

<210> 37000
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-A1

<400> 37000

cccacgcgtc cgcggacgcg tgggattgtg aatcccaagg gtgagatgaa aggttccgct 60

atcactggac ctatcggcaa ggagtgtgct gatctttggc ctaggattgc tagcgcagca 120

aacgccatcg tttgagagct tgttggaata tgttcagact tctatatgat catcttatta 180

tcagttgcta agagtgctat tgggcttaat gggcccttta tgtttgttca ctcaattttg 240

tagtaaacag aatttggtat accaagggga tctatatatc aatgtatgcc ataaattgtc 300

tgactaccat ttctcatgaa atgcttatat tgtttaaaaa aaaaaaaann nnnnnaaana 360

ncnntt 366

<210> 37001
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-A10

<400> 37001

gttattcaag tggaaccaga ggcaagaaac tcagatggat actgcacaac agaggctggc 60

agtgctttat ctgaaactgt catgggattg gagccaaata aagaaactgc ggttccaatg 120

caagagaata ttggagaagc taatgataat tttaataatt gcgaagcaca caataattcg 180

gagattcatg catttgaagt gtcgatggaa acgcagtcat cagaagtcaa ggaagtatct 240

tctattcagt ctggtgcagc aaatttgagc acacagacaa ctgcactgcc tgatgtaaca 300

agacaaacca gtatggcatc gactggagaa ctagtatcta caaatgaaca catacacatg 360

caaggcactg aaatcaattc agagcaacaa acaaagatgg tttcacctgc tgaatcagca 420

cctgctaatg atgaaca 437

<210> 37002

<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-A12

<400> 37002

cggacgcgtg ggcaaacacc tgggagctaa tctgaaggac attctacggg tccctgatac 60

tttcttggaa ccaggatcca taattcttaa tgggtccaac cttgccgcaa aaagaggtga 120

acgcctggct gttgctggct tttatggatt cctgaaaaac ctggccaaag ccaaatggct 180

tggtgacttt agccaacaaa ggactgtact tgctattgac ggtggcttat ccaagcacta 240

caggaggttc agtgcctgcc tataggcaac cctaacagac ctgctcggca aggaggttgc 300

ctaatgggtt gttgccaagt tggccaacga cggttcagga att 343

<210> 37003
<211> 284
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-A2

<400> 37003

cccagcgcgt ncgcggactc gtgggattgt ttatcccacg ggtgagatga aaggttccgc 60

tgtcactgta cctatccgca aggaatgtgc tgatctttgg cctatgattg ctagcgcagc 120

aaacgccatc gtttgagagc ttgttggaat atgttcagac ttctatatga tcatcttatt 180

atcagttgct aagagtgcta ttgggcttaa tgggcccttt atgtttgatc actcaatttt 240

gtaataaaca gaatttggta taccaatgag atctatatat taat 284

<210> 37004
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-A3

<400> 37004

ggagaaggcg gcctacgtgc tgatggtcct ggcgcaccgg agctacggtg accgcgccgc 60

catggccgag gcaggcgcct cgtccgcgct cctgaagcta acgctcgtgg gcacggcgct 120

cgcgcagaag cgcgcgtcca ggatcctgga gatcctccgc gccgacaagg gcaagcaggt 180

cgcggaagac gcctcgggcg tcgtggcgac ggtgtcggcg ccgcaggagc gcgggtgccg 240

cggggaggag tcggtggacg gngagttcgc cgacgccggc atgagcgcgg agaagcgcgc 300

cgtgcggcag ctggttcagc agagcctgca gagcaacatg cgccgtatcg 350

<210> 37005
<211> 159
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-A4

<400> 37005

cccacgcgtc cgcccacgcg tccggtttat atcatgtcaa gattgaacac atcacctttt 60

gtaaaactac ttgaattgtt attttccttt tccacaagag gtacatggca gattcctgtt 120

gagatttgat cttttggtgc ctgttaagct tcttgatgt 159

<210> 37006
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-A5

<400> 37006

cagacgagga gccaacccgt tcgcctgtga tagcggcagg agagtatacc cgacgatgac 60

ttgataaacc caactgctct ccctggtttt tcgtcgtctt cagctactaa ggagttcagc 120

gaagatcttc caaaggctcc atgggaggaa gtacaggctg ccgcagcagg ttccctgcca 180

ccgcctccgg agaggtatgg tcagagacag cagtacttcg agcaaaacgt gtattctggt 240

gggagcaacg gaggtggata tgatgaactg ttgacactga ctgaaaacct ctccctgaac 300

cctgagaaga atgcttcatg gccgacagca tcccgccagg ctaaacccga ggactcactc 360

ttcaagggac ctgtcga 377

<210> 37007
<211> 424
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G8

<400> 37007

accacgcgtt cgcccacgcg tccgataatc atgactggat gctgcgaaga gcaaactggt 60

ctgggggcta tgtatgtgtg aaatttgaga ttaggattag aaaatcaaag ggctatctgt 120

tgagttcatc aagcagtcag ataagtcagg gatccaaacc caacaattct gagatgggac 180

ttagcttcaa tatgtgcaag aagattgtgc atatgatgaa tggcaatatt tggtcagtat 240

cagattctaa aagcatcgga gaaactatca tgctagtcct ccagttccag ttggaacctg 300

tgactccgga ctctggagcg ttctcagatt tgtacagatc attcggaatt cccaacttta 360

atgggctcag agtcctcctt gcggacagcg actgcaccaa ccgagctgtt actcacaggc 420

tcct 424

<210> 37008
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-A6

<400> 37008

cccacgcgta cggattgagg aatccttact tgcatctcta gaaaagagga agaccggacg 60

tgagccaccc tatggctcag actctaagaa gctcaagatt agaatccatt gcggaagtgg 120

agcgcaaggc gtctgatctg agtgctggtg tataccattg tgctgtgcca ctgttgataa 180

tgtacatgta tgggctgttt gtttctccgg agatctcgct gcggcgtcta ctgcaacaag 240

attatggcga cacggccaga aacaacatga tgcgaaacct gaagccgact ctaatagcac 300

tgtactcaat gctcgatgca cggcatgcta ttctattaca gggccatatg acctacggag 360

gagcgacaac tggtgaatct agtggaccga gtgtatgcgc tggatgcggg cgacgaggca 420

cgt 423

<210> 37009
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-F10

<400> 37009

cccacgcgtc cgcccacgcg tccgattgct ttgatatgga atgtatatcg tctgataagg 60

atgttgaagg caaacaaaag gtgaatcatg tgactgtttt tgagcgccct ggtttgcatg 120

agttcttgcg gaaaactagt gaatttgcag atcttatcct ttttacagca ggtttagaag 180

gttatgctag acctttagtt gaccgaatag atcttcacaa tagattcaga cttcgtctct 240

atcgcccatc aactgttacc acggaatata gagaacatgt gaaagatctt actcgcgtgt 300

caaaagattt tggcaggatt gtcattgtcg acaacaatcc gttcagtttc attcttcagc 360

ctttgaatgg aataccttgt gttccatttt cagctggaca acattctgat gatcagctca 420

tgacggntat a 431

<210> 37010
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F11

<400> 37010

cccacgcgtc cgttttttt ttgtcgttct ctgcttttct tcaggagtag agaatcaaag 60

tgtgttacag cgtcgagttg cgtatctata catatttgca gagcgagaag tcatcatttg 120

taaactcctc gatacaacaa agaacgtaag gtgaaggcgt gaagctatat aggggaaggg 180

gaacccaagg aatggcgata caacacataa ggaacataaa aggcaccttc ttgatgctaa 240

gttgaaaaga ggagctttag gcatatctga tttgaatgtt gacgaccgaa ctgttaacct 300

agctgatata actaacagca cataggagaa caaaggtgga aagaatgctg ctctagttga 360

g 361

<210> 37011
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F12

<400> 37011

cccacgcgtc cgcttctcct aaatttctca tcttaatacc gagcatgcaa aatcctgagc 60

atttgtgagc actgaacatg gcttattgct ccagttactt gtacatcgtc taaagtttac 120

gttatcttct ttcacagatg gacggcaaaa caataaaggc tcagatctgg gacacagctg 180

ggcaggaaag gtaccgtgca attacaagtg cttactaccg tggagccgtg ggagcactgc 240

ttgtgtacga catcacaaag aggcagagct tcgacaatgt tcacaggtgg cttcgtgaac 300

tccgcgacca tgctgactcc agtattgtga tcatgatggt cggtaacaaa tctgacctaa 360

tccacctgag agctatctc 379

<210> 37012
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F3

<400> 37012

cacacacaca accagatctc ccccaaatcc acccgtcggc acctccgctt caagatgcag 60

atctttgtga aaaccctgac cggcaagact atcaccctcg aggtggagtc gtctgacacc 120

attgacaacg ttaaggccaa gatccaggac aaggagggca ttcccccaga ccagcagcgg 180

ctcatcttcg ctggcaaaca gcttgaggac cggcgcacgc ttgctgacta caacattcag 240

aaggagagca cccttc 256

<210> 37013
<211> 464
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-F5

<400> 37013

tgatgcattg ctgggctctt ttttgtgctc aatgatggct ataactggtt ttatttttcc 60

aatcatcatc aataaccaca aaatcctttt aatcccaaac caggtggggg taggctgaat 120

tggaacccaa ccggagccac aaaataaatg gtatgcatgt ggatggctgg tttttcattg 180

gctctattaa agcctaatct ttggacatat tctatccttt catgtcttct tttattatct 240

tttcccatgt taactntggt ctttctctgc ctctcttcct attactatca cattttagga 300

tcccattatg cactggtgcc tctggaggtc tccattgaca tgtncaaacc atctcaatct 360

gtgttggaca aacttctttt tttaatcatg tataagttaa agaaatatgc tatgacaaac 420

agacaaatgc actggcatac taatattcat gggttagatg tttg 464

<210> 37014
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F7

<400> 37014

gtacacggtg gcggtgcggc ggatggcgtt cgcggtgctg gagctgatgg cggaggggct 60

gggcatcgcc ggcggcgccg gggacgcggt gctggcgcgg ctggtggcgc gcgcggacag 120

cgactgcatg ctgcgggtga accactaccc gccgcggccg gcgctcaacc ccagcctcac 180

ggggttcggc gagcacaccg acccgcagat catctcggtg ctccgcgcca acggcacctc 240

cggcctggag atcgcgctgc gggacggcgc ctgggcctcc gtcccgcccg acggggacgc 300

cttcttcgtc aacgtcagcg acaccctgca ggtgttgaca aacgggaggt tcatgagcgt 360

gaggcacagg gtggtgggga acagcgagaa gttccaggtg ttcatggtct tct 413

<210> 37015
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F8

<400> 37015

agtacttcta gctctggagt atctacacat gttgggagtg gtctatagag atctgaagcc 60

tgaaaatgtt cttgtgcgcg atgatgggca cataatgctt tcagactttg acctctcgct 120

gagatgtgca gtctcaccta cactcatcag aacatcagct ttcgattctg atcccagaag 180

agcaggtggt tctttctgtg tacagcctgc ttgcatagaa cctacttcag cttgtatcca 240

gcctgcgtgc tttctcccca aattcttcgg acagaagagc aagaagaaga ctcgaaaggc 300

aaggtctgag ttgggacata acgccggcac ccttgccgag cttgttgccg agccaacatc 360

agctcggtcg atgtca 376

<210> 37016
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F9

<400> 37016

cccacgcgtc cgcccacgcg tccgctcagc ataactaaac accagcaaaa aaaatgcaat 60

tcacatcatt gatttcagtg atctgtccat tggggatcct atatgtgaca taattccgct 120

gcacttggat attttccggg gtgatagtga ccttctcaag gaatttctac ggagctatca 180

acttcccctt ctgaggggg aatcaaccac cgatgtctac agatcagtgc gaaactcgaa 240

gttcagcaag gcatcatatc gcgcgatgtg ctactgtata ttacacgaag acaacgtc 298

<210> 37017
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G1

<400> 37017

gtaacattaa tcacccactc tactactcga agttactacc agcagcttgc ttcaacagta 60

gaagagagcg agccgaggat ggcgtcaccg aagccctcgt cggcggccct gctcctcctg 120

gcggcggcgg ccgtgctggc gctggcgcgc gcggacctga cgcacgacaa ctgcgtgaag 180

aacaagaagg tgacggtgca gaacctgtgc agccacgacg tgacgctgac gctggagccg 240

ctggccaaca gcccgccgct gttcgcgggc acctacacgt tgcacccgtg cagccacgcc 300

gagttccccg tgtgctggtg gacggggcgc ctgcgcgcgc ccgaagcctg ccaggtggag 360

tgtcacgtcg gcgt 374

<210> 37018
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G11

<400> 37018

gcttctcagg aagacgatga agattaagaa catccactac aatctgacgg aagatcaatg 60

gaaggggaag aatctgtccc aggtggtgtt ggcgggtcag ctactgctga tgcattccat 120

ttggattagg atctgctact ttaggtcttg taagtttgat tagctactgc tgttcagatt 180

ttagaggtgc tattgcttct gctgtatgat gtttgagttt gatattcata tttcagacct 240

gatgttgctt atatattgtc taatatcttt aaaatctgat tcagagaatc atatatatta 300

tatatcaagt atattatgta gtatataact atatactgta gtgtatatat at 352

<210> 37019
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G12

<400> 37019

gttatcttct gtgttgctgc tagcgactac gatgagttct acgaagatgc aaacggtacc 60

attgtcaaca agatggtaga gagcaggcag ctgttcgaga gcatcaccct ccatccgaca 120

ttcgagcaag cagacttcct tctgctcctc accaagttcg atctcctaga gcagaagatc 180

agcagttccc cgctgacctc gtgcgactgg ttcagcgact tcactccccc gatcagccgc 240

aacctcctca acggcggcag c 261

<210> 37020
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G2

<400> 37020

gacagcggct acaacagcaa gtccggcact gatgactacg gccgtggcga aggtggctac 60

aacaagtcgg gcggcgatga cgactacggc cgcagcggcg gcgatgggta cggcaggtcc 120

ggcggcgacg actacggccg tggcaccggc ggcggtggct acaacaagtc cggcggcgga 180

gacgactacg gccgcagcgg cggcgacgac tacggccgtg gcaccggcgg cggcgggtac 240

aacaagttcg gagacgacgg ctacgacagc gggtacaaca gatcgggcac caccaacgac 300

gacg 304

<210> 37021
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G3

<400> 37021

ggcatgtagt ggatactatg gttatggcaa tgagagtcag gatggaacaa ttgagttaaa 60

cagaggtcct agatctggcc ggttcaagaa ccagaaattg tacggtcata ctgtcactat 120

tgctgtgaaa gggcagtctc tcccttctag tgaaagcaag aatgatagtg ctgtgcctga 180

tagagcaaag tacaatagag atgacattcc tgttcagtac gatgctgcaa agatctttgt 240

cattaaatcg tacagcgagg atgacattca caagagcgta aagtacaatg tgtgggcaag 300

ca 302

<210> 37022
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-G4

<400> 37022

tccacgcgtt cgatccgttg ctcgcaaaac gcccccacac gccgncggcg aatcggcgac 60

tccccttgcg aagggaggaa gcagccacgc cgccgtctcg gcgacttcct gacgactgcc 120

tcttcggtct cgaacgcgat cttgcccatg gtggctctgg cgccggtggt tcgtgagatc 180

tanggttgtc gagcgccgcc ggaatgggag ctggatgggg cgccgngaag atgttcgcag 240

cgggggccgc cgtcccggag ctggtccaac gttggcggga gcgtaatccc cgaactactt 300

gcaaaacaca naatggactt ggaaaatttg acgctgacaa aacattcaat cagaacatta 360

catttttcc tggtagccca tgtacaatac ttgaaa 396

<210> 37023
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-G5

<400> 37023

tccacgcgtt cgcccacgcg tccgcccacg cgtccgccca cgcgtccgca atgtttgatg 60

actttgtttt tgacgctggt gaagatgttc gagaggagca agatggtgac aatcgccacg 120

gggctggacc tactcagcta ctcgatctgc atcttcttgt cgtcggcctc tctctacatc 180

ctgcataacc tncacaaggg cgacgaccat gaggagtgat gagagtgtgc aatataatgc 240

cgaatctgta actctatgac agaagagata atgtgtaggc ttgggttcag ctgccatgta 300

ccttactgga cccacgtttc aatgagcatg ggtgtcacct gacctgacat gccctttaaa 360

gcctggtcct gaacttagac caccatgtgc tttactata 399

<210> 37024
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G6

<400> 37024

gtgggttggc ttctccttcc cctccggttc gggttcgggt tcgtgaggtt ctccggggtg 60

cggtttcgtg ggtgagcgga tcgagatggc ggcgtcggat gttgagtacc gctgcttcgt 120

cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180

cgaggtcctc gagtccaaga tcatcctcga tcgggagacg cagaggtccc gcggcttcgg 240

cttcgtcacc ttcttcacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 300

ggagctggac tgccgcaaca tcaccgtcaa cga 333

<210> 37025
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G7

<400> 37025

tccacgcgtc cgcccacgcg tccggacgac cacaggatgg ccatggcctt ctcccttgcg 60

ggctgtgccg aggtccccgt caccatccgg gaccctgggt gcacccggaa gacctttccc 120

gactacttcg atgtgctgag cactttcgtc aagaattaat aaagcgtgcg atactaccac 180

gcagcttgat tgaagtgata ggcttgcgct gaggaaatac atttcttttg ttctggtttt 240

ctctttcacg ggattaaatt ttgagtctgt aacgttagtt gcttgtagca agtttctatt 300

tcggatctta agtttgtgca ctgtgagcca aatttcattt caagagtggt tcggtgggat 360

aatcagaata ataaattacg tttcagaata caaaag 396

<210> 37026
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F1

<400> 37026

ctccatctcg accgtcgctc accgggaagc tacgctacga cgaagcatgg cgtccgtcac 60

cgcccgcgcc ccggtcgcgg ccctgcgccc gtcggcgtct ctcaagtcgt cgtcgtcgtc 120

ggcggcggcc ttccttggcc actctagccg cctcggccgc actgctaccg cgtcgccgac 180

gaggcgcagc ctaaaggcgg aggccaaggg cgagtggctc ccgggccttc cctcccccgc 240

ctacctcgac ggcagcctgc cgggtgacaa tggcttcgac ccgttgggcc tggcggagga 300

cccggagaac ctgaggtggt acgtgcaggc ggagctggtg aacgggcggt gggcgatgct 360

gggcgtggcc gggatgctga tcccggaggt gctgaccaag gccgggctga tcaacgcg 418

<210> 37027
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D3

<400> 37027

gctgtatcaa tatgtgtctc tagccttttt ggctaacgtc ttagagctgc tcttacattg 60

ggtgtctaca ggtgcatctg gtggggtttc cacgatcgat ctgtctacct ggactacttg 120

agtgtccact ctgctgtctg cgtctgtagg ctccacctcc aacttc 166

<210> 37028

<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D4

<400> 37028

aacgctctct accgtccgag accccaagca ccagcgcggc ggcggtggcg gtggcggcgg 60

cgaccatggc tgtcggaaag aacaagagga tctccaaggg aaagaaaggt ggcaagaaaa 120

agaccgtcga ccctttctct aagaaagatt ggtatgacat caaagcaccg tcggtgttca 180

gtgtgcgcaa catcgggaag actctcgtat tcaggacaca aggtaccagg aatgcttctg 240

agggtctgaa gcacagagtc tttgaggttt gcctagctga tcttcaaggc gacgaggatc 300

aagcttacag gaaaatcaag cttcgtgctg aagatgtgca aggcaagaat gtgctcacaa 360

acttttgggg catgaatttt accactgatt aactc 395

<210> 37029
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D5

<400> 37029

gtttatgttc ctgaagttga tatcctatca gtcttagatg ttcctcatgg gaaaatggga 60

cgagttattg gcagaaaggg gtcaacgata atggttgtga aagaatcttg caatgttgaa 120

atccatattg gtggtgctaa ggggcctcca gatagggttt tcatcattgg agcagtgaat 180

gaagtcagga aagccgaggc catcttcaga ggccgaatgc tggagttcta gagatgttac 240

cctttgcgcc ccatgtttcg actgctttat atcttttgaa cgcaaaaaag ggggaaatac 300

acaaaaggag tatgctgtgc cgaggatctt ttgcccatcc gtgaatcatg tgaagaaagt 360

ataaatgatt 370

<210> 37030
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D6

<400> 37030

gcctgctgcc cgtcttcttc cgccgtcgcc gccgtcgtct tcgtccgtag agcagcagat 60

cagagagcgg ggaggaagaa aaaccgatcg atggcgtcca actacgtgga cacgacgggc 120

gaggagggac ggttccacgg ccctcacagc cacagcacca gcacgacccc gacgggcggc 180

gcggcggcgg cggcggcatc gccgcgcaac ttccggcgca gcttctcctc cgcgtcctcc 240

gcgggccaca gccacggcgg cggcggcggg ggcaggtgcg tgtgcgcgcg cgcgacccac 300

gccgggtcgt tcaagtgccg ggtccaccgg accaacttcc agggccacgg tcacccgcac 360

ccgttcccg 369

<210> 37031
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D7

<400> 37031

cgtgagtgtt ttaggcacct aatggctaat ttcaggaaaa aaatcaaggg tgatgtgctg 60

aagtatatgt ggccttgtgc atgggcatgt acagatcata tgtatgatac actaatggag 120

aaaattgcag catctagtcc taaagcaatt cactttctaa acaataacca caagctaaaa 180

tggagtagat ctaaattctc caaagaatgc aaggttgatt atgtgaacaa taacatctca 240

gaatgcttca acaattggat taaagattac aaagatctcc cagtcgctga tctaatggat 300

aagattaggg agaaaattat ggagaagatt tatacaaggc aagagatagc caatcgaatg 360

gaagggcgta tcctacaaag tgtgatacat gaagtgaaca tgaagagc 408

<210> 37032
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D8

<400> 37032

cccacgcgtc cgaaaccaaa ccgtgcattt catattagaa aggcagtgca ggtcttgttg 60

ccttcgtctt ccccatgaag aaaccgtact agctgtagct gctgaacgtt tgagtccccc 120

tgctgccacc cttatctcca tttgtgtcat cgaaactcct tgcttcccct gctgtgtgaa 180

tctgtacggc tttgcgtgtt ctggacactg attgcagttg aatccagttt gtagttctat 240

ctgttcatcg aatctgccca gactcctttg gtaccattca acaggctgct gctttctggt 300

taaaaa 306

<210> 37033
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E1

<400> 37033

ggctctgaag aattgtctgc tgagctctct gtttccctgc aaagatgctt gttgggtggt 60

aaaagtggtg ctggtgctgc aattgatctg tcatccctaa ttgttgttga tggaaaggtc 120

tgctgggatc tgtacattga tgggcttgtg gtcagttctg atggtaattt gctagatgcg 180

ctagctgttg cgataaaggt tgctttgagt gatacaggta taccaaaagt taatgtttct 240

gttagtgctg catctgatga ggaacctgaa gttgatgtaa gtgatgagga atttctgcag 300

tttgacacat tcggtgtgcc tattattatt acattaacca aggtgggtcg gcactacatc 360

gttgatgcca ccttagagga agaatcccag atgagttctg caatgtcggt gtcagtcaac 420

<210> 37034
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E11

<400> 37034

cggacgcgtg ggtgttcaac aacattgata cagacaggag cggcacgatc acggtcgagg 60

gactcaagga cgggctggcg aagctcgcgt ccaagattag cgaagcggag gttcagaagc 120

ttatggaagc agttgacgtg gacaagagtg gcagcattga ctacaccgag ttcctcactg 180

ccatgatgaa caggcgtaaa ctggacaagg aggaggattt gttccttgct tgtcaacact 240

tagacaaaga ctatagcggg tacataacaa gagacgaact ggaacaagcc atggcggagt 300

atggggtggg tgatgaagca agcattaagg aagtgctgga cgaagttgat aaagacaagg 360

atgggagaat cgactacgaa gagtttgtag aaatgatgag gaagggaagt tatacctg 418

<210> 37035
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E12

<400> 37035

gtcagattcc atgaggtgca ctgtttcaag tcatttgttc attcaattcc atggttgcac 60

agaaaagatg aggcgatgcc aagaaaaagt cgatatgtct atgtgtttaa gttaaagggc 120

caaaatgtat ttcttgtttg gtatatagca gccctacaac actttggtga acttagttac 180

tgcagactag gtaattacag ttgcaccttt tgtattttat agcaaaccca gaaattttca 240

ttggattcta cgactgcccc tcttgtagta aatgcaaggc ttacctg 287

<210> 37036
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E2

<400> 37036

atcgaaccta tccgcaactt attcgctgct cttttccttg ccagcattgg gatgctaatt 60

aatgtccatt tcttgtggaa ccatgtggat atactccttg cagcggtaat tttggtgatc 120

accgtaaaga catttattgt tgctattgtc gtaaaagggt ttgggtatag caacaaaaca 180

tctcttcttg tcggcatgtc tcttgcacaa ataggagagt ttgcttttgt tctcctaagc 240

cgtgcttcaa gtatccatct catcgagggc aagctatacc tgcttcttct tggaaccact 300

gcactcagtt tggtgacaac ccctctgcta ttcaaaatga tcccagcagt ggtccacctc 360

ggggttcttt tgagatggtt ttctgtcgat accaatcagc tgggcctaaa aaatgatgtc 420

cttcgcattg atagcggcaa gcgcataaat ctgat 455

<210> 37037
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E3

<400> 37037

gatcgtcaag taccttcacg accaccccaa gctcctcgag gccgtccggg cggagcaggc 60

ggcggtccgc gaggccaccg gcggcgggag gcagccgctg gcgtgggcgc acacgaagag 120

catggcgcta acgcataggg tgattttgga gagcttaagg atggcgagca tcatctcgtt 180

cacgttcagg gaggccgtgg ccgacgtgga gtacaaaggg ttccttatcc ccaaggggtg 240

gaaggtgatg cctctcttca ggaacatcca ccacagccct gactacttcc aggatccaca 300

caagttcgac ccttctag 318

<210> 37038
<211> 473
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-E4

<400> 37038

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcttc cttcgacgtc aagctccggg 60

ccactccatg gattcgatct gggaggcgag gagctgaggc caggacaggg ggaggagctg 120

ctgggggggca gggacaggat agcgcggcta agcggcaacg gcggcagcca tgagctggag 180

acgaggcgga agcggaggcg atggcggngt ctcgaggagg tgggccgtcc tgctctgcgt 240

cggcagcttc tgcctcggcc tgctcttcac caacagaatg tggacgctgc ctgaggcaag 300

tgagattgct aggccgaatg cgaatgtgga ggaaggcacc gtgccgattg ccgcggagtg 360

tggttctaaa aaggtccaag aaaagcagga ttacagagat attntacagg ttcaagatag 420

ccatcatgat gtacanacac tggataagac gatagcaagc ctagagacag agc 473

<210> 37039
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E5

<400> 37039

cccacgcgtc cgcccacgcg tccggacaag tgaagtggtc gatttcttga gagggatatt 60

caacatgttt gacattgata acgatggagc tttactacct gctgagctgg aggacctatt 120

ctcaacagca cctgaaaacc catggtcttg cgatccatat aaagactgtg ctgaaaagaa 180

tgtgttgggt ggtctgtcac ttgaagggtt tctctcaaag tgggctctta tgacactgct 240

agacccgaca aatagttatg ccaaccttgt atacgttggc tatcctggcg agttcagttc 300

tgcatttact gtcacaagga aaagacgtgt ggatcggaaa agcaacagac acagagaaac 360

attttccagt gttttgtttc ggtgccagag gctctggaaa gacatcggtg ctacaatcaa 420

tcatcggaag gcaacctttt gatgccct 448

<210> 37040
<211> 71
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E6

<400> 37040

aaaaaaaaaa aaaaaaataa aaaaaaaaat aaaataaaaa aaaataaaaa aaaaaaagaa 60

ggaaaaataa a 71

<210> 37041
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E7

<400> 37041

gaccggctgg acggacgcgt tcgttcgatc tcgaccgtag ctcaccggta agttactcta 60

cgacgaagca tggcgtacgt cggcgggggc gccccggtcg cggtcctgcg cccgtcggcg 120

tctctcaagt cgtcgtcgac gtcggcggcg gccttccttg gccactctag ccgcctcggt 180

cgcactgcta ccgcgtcgcc gactaggcgc agtctaaagg cggttgccaa gggcgagtgg 240

ctcccgggcc ttccctgccg cgcctaccgt gacggcagcc tgccgggcga caatggcttc 300

gacccgttgg gcctggctga tgacccggag aacc 334

<210> 37042
<211> 413

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E8

<400> 37042

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcacg cccacgcctc atcaagcgag 60

gcaatggcgt cgcggctcct gccgttggtc gcggcgctgc tcctcctcct cctcctgacg 120

gcggcgtcgt ccgaggcgac gctgcacccg gtggactacc tggcgctgca ggcggtgcgg 180

cgggcgctgt cggacctgcc gggctcccgc ttcttcgcgt cgtgggactt cacgggcgac 240

ccctgctcgt tcgcgggcgt gtcgtgcacg gccgacggcg cccgcgtgga gacgctggcg 300

ctgggggacc cgcgcgcggg cgcgccgggc ctcgggggcg cgttcccgtc cgcgggcgtc 360

ggcaggcttg ccgcgcttac gtcgctgtcc ctcgtgccgg ggcgcgtcac ggg 413

<210> 37043
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E9

<400> 37043

cccacgcgtc cgcccacgcg tccttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aggaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa 120

aaaagaaaac aaaaaatgga ggagaaaggt tatggaataa caaaccaaaa accaatgacc 180

agaatactat acttaaaa 198

<210> 37044
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D2

<400> 37044

gctaaatcag taagtgtcgc taaacttttt ggctaatgtc ttagagctgc tcttacattt 60

gtaatcgaga ggtgcatcgt gtgtggtttc caggatgggg ctggggacct ggactactcg 120

gcgtcgtgct cggcgtcggc gtcgggaggc tccacctcca acttctccgg gccgtccagc 180

ggcagcggca gcgggtctgc caacaaggtg gactctccga ttctcggcct cgtcaccgag 240

gccgacagca tcacaagaac agcccggccg cagcacagcc atacggcaac gggacaataa 300

cagtgtgaca ctcacgaata tacttgctcg cccgtcttac accattgttt gacagttttt 360

acaatgctta acttttttagg tgagtggttg gttgctggga atgtacagta tttgggtcaa 420

aattcaaaat gtttcagagg cttaatccaa tgaaacaggc cctggttttt taaaa 475

<210> 37045
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B9

<400> 37045

ggaggaagag gtgaaatggt gaatgccgcg acgtggctcc tcgatcggct cctctacgtg 60

ctcaagcagg acaagggcaa cgacgccaac accgggcgtg accgacggcg aaagaagcgt 120

gctccggccg gtggcgccgc caacgccgtt ggaaacgatg atggcgagga gcagcacctc 180

aacacctttc tcgacgctgc gaatgcgtcg tccgcctcct caagggtgca gttcaagaat 240

atggcgtcgc gcgcgcggtg ggtggaagaa gccggcgctt cggaggtggt ggagaacaag 300

gg 302

<210> 37046
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-C1

<400> 37046

ctccgaggga tccaaatcca gtcgtggaag aagctgagcg agctcagcct cgcggacaat 60

ggctgcaccg ggtccatacc gccggagctc ggtgacctgc cggtgctcaa ctaccttgac 120

ctctccggca acgagctcag cggcgaggtg ccgatgcagc tggagaacct gaagctggac 180

cagttcaatg tgtccaacaa ccagctgcgt ggcccggaga cgtaccgcag cagcttcttg 240

ggcaaccctg ggctttgcct ggatgatgcg ctccatcttc atgtttgcag ctgccatcct 300

ggtcgccgga gtggcgtgag tctatcggcg gtaccggagc ttcagcanat cgaagctgcg 360

ctcggaccgc tcgaaatgga cattgacgtc tttccacaag ctcttat 407

<210> 37047
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-C10

<400> 37047

acgagacaac aaatctcctc ctcttcctct ccgtatccgc atcagtccat caccttcaat 60

ggcggcggcg gcggctgctg ccacctcctt caccaccctc gccgtcgcgc gttcggcggg 120

gcagcggtcc ctccttgcct ccaaggccgc accttcgccg ctcctctccc tccgtggcgc 180

ccgcatcccc tcgcaggccg tctccttctc cgggggcctt gcggcgtcgc cctctcacag 240

ccgcgcgcgc ttcgctacat ccgccagcgc cgagcccaag gaagcagatc ttcagtctaa 300

aatcaccaat aaggtgtatt ttgacataag cattgggaac cctgtgggga agaaatgttg 360

gaggga 366

<210> 37048
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-C11

<400> 37048

gactcatcct ttggaagaag agatgctaga gttttacatg atcaagtagt gatatacgcg 60

accctacaca tgtgagtttt cacttgtatt gactaaggga atgcttagac ttctgtcccc 120

ttgtcaatat tgggttgttg aatacttagc catttggatg tagaacccca ggaaatggtg 180

cagtatgcga tttggagtgc tggcagcttg taaaacaaat ctgtgctagc agtccaccat 240

ttgtttacat ctccaaatct tgtttgaaac ttgcatgtga acgcaggcct tcgtctcaaa 300

atataatttg ttttagatt 319

<210> 37049
<211> 429
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-C12

<400> 37049

cttgtcagtt ccaaaagcga ccagtgtgaa ggctatagcc gaaatatttg ctgacgctgg 60

gttttcagat gttacaaaga atttcttggc tgtcctggcg gacaatggca ggctgaaata 120

tattgaacgc attgcggaga gatttgttga tttgactatg gaacataagg gggagatgaa 180

ggttgtggtc aggacagtta tttcactcac caaggaggag gagaaagaac tcaaggaaac 240

cttgcaggat atccttgggg aaaacaaaac tattttggtt gaacagaaga ttgactacag 300

catcatggga ggattagtga ttgaattcgg gcagaaggtg cttgatatct caatcaggaa 360

cagggcgaag caaatggagg cgttcttgaa ggcaccactt gacttctaac aacctttttg 420

ataaaagca 429

<210> 37050
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-C2

<400> 37050

cggacgcgtg ggcggacgcg tggggaaagg tttcaggaga aactggcgtg cacagaatca 60

gcagttgctg aagccaacca cgctgtgcag gaggcaaagg ccgagaagga gaggcttcaa 120

gagaagcttg cacacacgga atcagaggtt gctgtggcca acatggctgc acatgaatct 180

aagattgagt tcgacaggct tcaagagaaa cttacataca cagagttggt ggttgctgaa 240

gccaacaagg ctgtgcacga ggcaaaggct gagagttcgc atctgaagga gcggttactt 300

gacaaagaga atgcattgca gagcataacc caggagaatg atgaattcag gatgccaga 359

<210> 37051
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-C3

<400> 37051

agacaatcta aagtcagctc tacggcaatt tggtatattg aaagactaaa tctttgatct 60

ttgctggtca gcagaggaat caaagcagta ggaatgtagg atcgaggaga gtgacaggac 120

ttcccctctg tgcacttcgc cgaaaagtaa taatgggatt gctatgcatg gcccttgttg 180

tacactagaa aattgggcac gcaaacttgt gtcagttttt ccgctgttgc gaaattcagt 240

gatggtgttt ttgtaactat accaacctgt gtcagttttg ccgttgttgc aaaactcaat 300

gatggtgttt tttgtaatta ttatacatcc gaataataag actggtgttt ccagacagac 360

tatgcangct aaagggaaat cacgattttt ct 392

<210> 37052
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-C4

<400> 37052

tcgcccacgc gttcgcccac gcgttcgtcc acgcgttcgc ttgatcctaa gctattcaaa 60

gggataaaaa aagtagtcaa tgcagtctct gtcatagtgg ggccaaagga aagtgatacg 120

ccagacaggc agaagttcaa acaagggatt aaatttttcg aacctgagat caaaggacct 180

ttacctgaaa tgggtgagta ca 202

<210> 37053
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-C5

<400> 37053

cccacgcgtc cgcccacgcg tccggtgcgc ttcaacaagg agctgtacaa aggttcataa 60

gcaaggagtt gcgcttggcc ggtccgtgga cctttctaaa ttcaccgact acggagagct 120

caaagcggaa cttgacaaga tgtttgagtt cgagggcgaa ttggtatctg ctaaccggaa 180

ctggcagatc gtttataccg acaacgaggg tgatatgatg cttgtcggag atgacccgtg 240

ggaggagttt tgcaacatag tgcgcacgat ctacatatac acg 283

<210> 37054
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-C6

<400> 37054

gggactacgt caacgccgtc cgcctcggca gcgtcgcctc ggcgtagctt ttggattgcg 60

tgttcgtttc catgcatgtg tatcattgca tgcaataatt ggatgaaata aacagcaata 120

agcttcatca gtattaaaaa aaaaaaaaaa aaaatataaa aataaaaaaa aaaaaaaaaa 180

aaaaaagaca aattgattca aaagaaaaag tatttaaaaa gagataatta aatttaaaaa 240

aaaagtatga tttataacaa agttaaaact taaaaaacgt ttgtt 285

<210> 37055
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-C7

<400> 37055

caaaccatgg gacgatgaga ctgatatgaa gaagctggag gaggctgtcc gcagtgtcca 60

gatggagggt ctgacttggg gagcatcaaa gcttgtgcct gttggatacg gcatcaagaa 120

gatgactatc atgttgacaa ttgtcgacga tcttgtgtcc atcgacactc taattgagga 180

ccaccttacg caagagccca tcaatgagta cgtccagagt tgcgacattg tggctttcaa 240

caagatctag agttcagttt ctgagattgg gcaacg 276

<210> 37056
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-C8

<400> 37056

cccacgcgtc cgaggcggcg cagcagcatc gccaccaccg tccaaagatg gtgaagttcg 60

tcaagcccgg caaggccgtt atcctcctcc agggccggtt cgccggccgg aaggccgtga 120

tcgtgcgcgt tttcgaggag ggcacccgtg atcgtcccta cgggcactgc ctcgtcgcgg 180

gcctcgccaa gtaccccaag aaggtgatcc gcaaggactc cgccaagaag acggccaaga 240

agtcccgcgt caagtgcttc atcaagctcg tcaacttcac gcacctcatg cccacccgct 300

acaccctcga cgtcgacttt aaggacgtcg catcgggcgg gcccgacgcg ctcttcaccc 360

gggacaagaa ggtcgaagcc tgcaaggccg ncaaagcgcg cctcgaggag aggttcaaga 420

ccggcaagga c 431

<210> 37057
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-C9

<400> 37057

gttagcagcg gcgatgggaa tgggttgcta tgctccaacc acactcattc ccctcacttg 60

caatatccca acagaaagca ttggtgctcc tgctggtgaa gagaatgtac aggatgctag 120

gcagcaaaat gtacctcaaa gacaagttgt tgtgaggagg tttcacttcg cttttcagct 180

tgacttgacc ctgatcatca aactagctgc agtggtgttt ctctttagcc aggaaggctc 240

aaaacaaagg ctatttcttc tcatactgtt tgcatcattg atttacttat atcaaaccgg 300

agctattata ccttttgtta gatggcttca gcgggcggga ggtgcagctg ctcatccacc 360

acaggctcct ngctcggccg agaaccgtgc tgctctgcct gcccaagatg atggcaatga 420

gcagcccaat gac 433

<210> 37058
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D1

<400> 37058

tgcatgcgta cgttcacgca ttcgactgcg atcgcgctgc tgctgctcat gatgcgtacg 60

agggttgata agttattgag acaagctgct ggcataatct ggttggctga tgactatctt 120

atggacccta ttgattatcc catggagggg ttatccaacc ttggaacctt accttaaccg 180

ttccattgat tcttaccctt tc 202

<210> 37059
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D10

<400> 37059

cccacgcgtc cgagggtgca tctaggagct ctggtaatgg tggaccaact caaagggcat 60

gtgcattagc agctctatca tctgcattca atccatcgtc tcaacaaagg ctctctaatg 120

agaggcttaa aagcacaggc gatggaccca ctcaacgcgc ctcagcactg gctgccctat 180

ctaatgcatt caatccatcc ttaaaaccca aaacaccact tccatctcgc tcaggtcaag 240

gttcccaaag agcagctgcc gtagctgcac tatcctctgt gctgactgct gagcaatctg 300

gatcttcaga aaatctacga gccaaagcta gcagcacagg agataagact gatgtcgata 360

ggcctgtcat aactccagct ggaccatctg gtccatcttc tcctcagtct gaagctgggg 420

agtccaatgt gtttcgccag gaaaaagatg ctgc 454

<210> 37060
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D11

<400> 37060

ttctcatttg cagacccaat ccattcccag agcaatcacc aagcctggca gattagattt 60

gcaccctcac atggaggaaa aatccaacct tcgcatgtga cctctattta aatccccgca 120

agaatcgatc aatcaatcca aaagggtgca ggaaaacaga gcaatcccgt tgcttagcgt 180

gttcgccttg ccgttggcgt ctcttctccg ttccttcgca cgcgtaggcc cataaacctc 240

cgctaaagct cctttgtcgc gcccatttcg tcagccattt cccagattcc ccataagcga 300

agg 303

<210> 37061
<211> 415

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-B8

<400> 37061

cccacgcgtc cgcccacgcg tccggcggaa gacaggtcgc ttgttctact tctacctggc 60

gtcgcaggct tcgcaaggcg gccacacgcc gatacctcct ccttcacccg ctccgtcgtc 120

ccccccagcc ggccacgcca ccatgctgcc accggccgcg cgccttgcgg cccgccgcct 180

tctcggcctc gcctccgcat ctgcgtcgga agccgccggc cgccgggtag cttcctctcc 240

gatcgcttcc gcaagctact ccgncgncgc gtccaggggc tccgtcttca gcaccaggcc 300

cttctncacg gctcttaact accaccttga ttccccggag aacaagccgg acatgaaatg 360

ggaagtctca caagcgaata tgaagaaagt caatgagatt cttgctcact atcca 415

<210> 37062
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D12

<400> 37062

gcgccacgca ccgacaccaa tacgtcatgg gttccatcat ggagcaacgc tgcaacaacg 60

atccgcaggc gctgctcgac gctcagctcg agctctggca cagcacgttc gcgttcatca 120

agtccatggc gttcaagtcg gcgctggagc tcggcatcgc cgacgccatc cactgccacg 180

gcggcaccgc cacgctcacc cagatagcca ccaaggccgc gctccacccg tccaagacac 240

cgtgcctgcg caggctcatg cgcgcgctca cagtcgccgg catcttcagc gtcgccaaga 300

actcgtccga cgatgacagc gatcagcacg tctacggcct cactccggcc tcccgacttc 360

ttgtcggctc gtcacagaac ttggctccaa cactgag 397

<210> 37063
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A2

<400> 37063

gcaggagttg atttattgag caaatctttt taggacacca tgcttgtggt cacaggcaat 60

tttgatgcaa attgcagtga tgaaaagagt tggtagtggt tcaacacttc tacgaactaa 120

agaggtacac tggagcgaag cgtgtcatgc tcatgccata tctgtggcct cgtttctaag 180

ctattggaaa ccaagtcggt gaccactgga cgtcttgcaa tagcttaaca tatacgactt 240

tattagccat tttttgttac acggcttttt gtattcttga gagccttaag caaaatctct 300

ggtagtggaa tcaggcttag acttttacat ttcttgcaga aatgctgcac cattgatgga 360

atatgtaagc tgcaccatgg aaatgtgact gcagttttat ggtt 404

<210> 37064
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-A3

<400> 37064

aagatgtgga tggttcatgt atatcagaag aagaagatgg tgactgggat gtagatgagc 60

cagatgagga ggacatcatt tacgtaaaat agcccattgt cttctaggaa cttggtcatc 120

attcatccag aacacagcag gtgtgcttct actgatcgaa aatacatctt ccaaataact 180

atgaggactt aaccaagcac cattcaatct tcatttgctt ctatagtttg ggttgcgttc 240

tgcatacata atattgccta tcaaggtaga tttgccagag cagacttcga tcttcttaat 300

ctacctgaca gtttcttacc atcatttgat tntattgatg gacatgttaa gcctgttcta 360

gggagaaaga ttaactggat gaagacaggg atc 393

<210> 37065
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A4

<400> 37065

cccacgcgtc cgcgcttctt gaggagtgtg gtttggattg caactaggat gtcagtgcat 60

cagctccccc aatctgcata tgcttgaagt atattttctg gtgtttgtcc ccatattcag 120

tgtctgtaga taagagacat gaaatgtccc aagtttcttt tgatccatgg tgaacctact 180

taatatctga gagatatact gggggaaaat ggaggctgcg gcaatccttg tgcagttggg 240

ccgtggaata cagcatatgc aagtgtttga ttgtgcagca ttctttatta cttggtcgca 300

atatagatgg gctgagccga acagcaaggt attttgattc tgcactgctc ccgtgtacaa 360

acttggttct caataaggca agcaggaatg catctgccag tggaacagag caacctgcac 420

attatttatg tatgcct 437

<210> 37066
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A5

<400> 37066

gcgtccacgc gtccgctctt attagctcta ggctctagct agccgcgccg ctccttcgcg 60

tggccatcag gcttctcatc gccaccaatg gccactggcg aggtccagac cccgaccgtc 120

gtggcggccg acgaagcgcc cgtggtggag accccggcga cggccgtcgt gcccgaggag 180

tctggcctcg ccgaggccga cgccgatgcc gaggctgctg cttctgctga tcccgaggag 240

ctttccgtgg tcgagcagca ggcagtcgac gaggcagagg ccgctgctac tgctggtgcc 300

g 301

<210> 37067
<211> 471
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-A6

<400> 37067

attacctcgt cgtctgcgca gcgctcaccg tcgcgtgccg ccttatcggt gaggaggcca 60

tccctgccgt gctgccccag gttgtagagc tgctcgcgca ccccaaggag gctgtgagga 120

agaaggccgt catggcacta caccggttct accagcgatc ccccttctnc gtcttccacc 180

tcgtctccaa cttccgcaag aggctctgtg ataatgatcc angggtgatg ggtgcaactc 240

tttgcccccc ctatgacctg attttggagg aaccaaattc gtacaaggat ttggttgtta 300

gttttgttaa catcctcaaa caagttgcag agaggagact accgacttcc tatgattacc 360

accaaatgcc cgcaccgttt attcagataa aactattgaa gatactngct ggacttggta 420

gtggcgataa acaagcaagt gggcatatgt acactgtatt gggtgacata t 471

<210> 37068
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A8

<400> 37068

ctcactctcc ggtggtcgct cactctcgca gctccaccct tcactcagtc ttagacggtt 60

attagctcta ggctctagct agccgcgcca ctccttcgcg tagccatcag ccttctcatc 120

gtcaccaatg gccactgccg aggtccagac cccgaccgtc gtggcggccg aggaagcgcc 180

cgtggaggag accacgccga catccggcga tcccgaggag tctgcccccg gcgaggtcga 240

tgccgaggcc caggctgctg ctactgctga tccagaggag cttaccgcgg ccgagcagca 300

agcagccgtc gatgcggagg ccgcggatac tgctggtgcc gaggagctcg tcgcggccta 360

accggacgac gcggcagagg ctgatgatcc tgctggtcc 399

<210> 37069
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A9

<400> 37069

cccacgcgtc cgcggacgcg tgttcgcggt cccatcctgc tggaggacta ccacctgatc 60

gagaaggtgg cgcacttcgc gcgcgagcgc atcccggagc gcgtggtgca cgcgcgcggg 120

gcctccgcca agggcttctt cgagtgcacc cacgacgtga cgtcgctgac gtgcgccgac 180

ttcctgcgcg cgcccggcgt gcggacgccc gtgatcgtgc gcttctcgac ggtgatccac 240

gagcgggggt ccccggagac gatccgcgac ccgcgcgggt tcgccgtgaa gttctacacc 300

cgcgagggca actgggacct gctgggcaac aacttccccg tcttcttcat ccgcgacggc 360

atcaagttcc ccgacgtgat ccacgcgttc aag 393

<210> 37070
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B1

<400> 37070

aattcccgtt ctactccacg cgtccgattc gaaatagctc aggctgactt tcacctcgac 60

tactactagc accgaacttt gcgcgggaat ggacccccct ctgcaggacc gctaccagac 120

acacttgacg gatcacatat ggactctggg aaccaacagg cggtgctgta ccgtcagcta 180

ctattcttga tcccctctga gccctcttct tcatctcatg cttaaatatg cacacatgct 240

tccgtaac 248

<210> 37071
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B10

<400> 37071

tcccatgcac gcatcggcat atatcaatgg cgagctcctc ctcctccgag caccgagctg 60

aaacacacat caagaaagca agaaagaaaa gactgtagct agctagccac cgcgcgcgcg 120

cacgagtagt ctagctagaa tacactcgcg ttcaaaacaa acacacagcg tcgtgctgcg 180

tgatctctga ccgcgtcgac aactaccgca gcaccaagca gctgatggcg gccaccgtat 240

cttcctgcct gagcctcgtc cccaccgtgc accaccgggc cggcgggttc cccagtgtgg 300

cactgacgaa cacgcttcag cgccgtcgtc 330

<210> 37072
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B11

<400> 37072

gaccgatgta atcgtcttct gtttcggcgg gttcgagaat ccaggcactg cgaaatcaga 60

aggagagctg ctttcccagc ttgtggactc gctggacttg tcgggagcca aatacacggt 120

cctctatgcg tcccaaccgt ctggtttgct ggagagccct tcgggcttgc cgctgggtag 180

gcatctcgcg gagaagaaga ctaacggcac gaaaactgtc cagggcgaaa aatgcgatgg 240

cgagtgcctc gtcaaatcga gtctcctcga aggaactttc gttgggatag tgcttctcat 300

catcctgata tcaggactca tgtgcatgat gggcatcgat actccctcga ggtttgaagc 360

tccccaggag tcttgatctc tcccttggac tgcagaatcc gcgggggggt tgtgacgagg 420

gcacg 425

<210> 37073
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B12

<400> 37073

tcggaccgac gtcatcgact tctgtattgg cgtcctcgat aatacaggca ctgcaacggc 60

agagtgagag ctgctttctg agcttgtgta ctcgctgaac ttgtcggtag ccaaatacac 120

ggtgctctat gccttccaac cgtctgatgt gctgaatagc cctttgccct tgctgcttgg 180

tacgcatact ccctagaaga acactaactt ctccaaaact gttc 224

<210> 37074
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B2

<400> 37074

cattgcttat atatgtagca tgaactcgtg catcccattc ccagcaacta agcctaaccg 60

tctgctccac cacttctgtt ccttgtatac cttagtcaac aatgcacaca cttgccatag 120

cagctctgca cctgttgcag cttctagcaa caataccaac actatcctca caagacacag 180

aggcaattcc cggttgcacc tccagatgcc acaacataag cataccttac cccttcggta 240

tcggcgatga gcgatgctac ttacatgagg ggttcaagct cgcgtgcaag acggaagaac 300

agcctccggt gctgtacatg aacagcgctg gatatcgagt tgtgaaaatt aagctgaacc 360

ctagggtcgt gtacctcgac actcgtttcc accaactgtt ggggaaaagc agctatggcg 420

agagctggaa cctcagcctg gacaac 446

<210> 37075
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-B3

<400> 37075

gagatatcga agtgtttcat gttagcaccg agaaccagct agccgatatc ttcactaagc 60

ctctagatga gaagaccttt tgcaggttgc gtagtgagct aaatgtcata gattcgcgga 120

acctggattg aattgtagca tacatgtact tatgcttttg atcatgttcc tttttgcatt 180

ttgttgctta ttatggtgct caagttgtac aaacactccc tggacctcac aagtccgttg 240

caaagtgatg cacatgttta gggggagatg tgctacaact tgacccttg agactaacca 300

tgtgcttgag tttgataatt tagtctcgaa tgatgattga naggggaaaa gtggacttgg 360

accatgnaag actttcac 378

<210> 37076
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B4

<400> 37076

caatcacttg gagctggtgc cattctagta aacccttgga atattacaga agttgcagac 60

tcaatacggc atgctttaac gatgccatcc gatgagagag agaaacgaca cagacacaac 120

tacgcacatg tcacaactca cacggctcaa gattgggctg aaacttttgt atttgagcta 180

aatgacacgg ttgctgaagc actactgagg acaagacaag ttcctcctgg tcttcctagt 240

caaatggcaa ttcagcaata tttgcgctct aaaaatcgtc tgctcatatt gggtttcaat 300

tcgacattga ctgagccagt cgaatcctct gggagaaggg gtggtgacca aatcaaggaa 360

atggaactca agttgcatcc tgacttaaag ggtcctctga gagccctctg tgaggatgag 420

cgcactacag ttattggtct tagcggcagt gacagggagt gtcttgatg 469

<210> 37077
<211> 133
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-B5

<400> 37077

acggntcgag atagctcatg ttcgatttca gctcgacttc tcctggatca gacctatgag 60

ctgggaatgc acctacctct gcatgatagc taaccgagac gcacgacgta tcattatatg 120

gactctggca tcc 133

<210> 37078
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A12

<400> 37078

agcaagggaa gacgacgcag atctttccac gcgaacacag ttagatcgag ggagtaagtg 60

agagtgagag ccatgacgga gctgttcgac acggtcgtga ccagcctcct ccacctgccg 120

gaggtgctgg accgcctcgc cgacgcagac ggcgaccggc ggtcggccgg ccaccacgcg 180

gcgcacggcc acggccacgg acgcgtccac gggctcggcg gcggcggcgg agcgccggtg 240

gacatcgtgg agagcccccg cgagtacgcc ttcgtgctcg acgt 284

<210> 37079
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B7

<400> 37079

cccacgcgta cgcggacgcg tgggcgagcg gtgcctagga gatgacttgc ggcaggtcga 60

agttgacccc ggatgatgtg cggatggcgg taacgtatgg ctggtaaagt ggctcgacac 120

tctgccgccc acatctaaca gcgtagacac ccattcaaag gcagagccta atgctggacc 180

tttttagtg 189

<210> 37080
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-G10

<400> 37080

cccacgcgtc cgcccacgcg tccgctcaag ttctcgcgcc cacagccaaa tttttctcca 60

ctcaatcgcg gcataagctg cactgcagcc atggacgcca gcggagccgg tagcaaggcg 120

aagaaggggg cggctgggcg caaggctggc ggccccagga agaagtcggt gtcgcggtcc 180

gtcaaggccg ggctgcagtt ccccgtcggc cggatcgggc gctacctcaa gaaggggcgg 240

tacgcgcagc gcgtgggcac cggcgccccc gtctatctcg ccgccgtgct tgagtacctc 300

gccgacgagg tgctggagct ggccgggaac gcggcgaagg acaacaagaa gacgcgcatc 360

gtcccgcgac acttggctct ggcgattccg aacgacgttg agctcggcaa gctgctgtct 420

ggc 423

<210> 37081
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-G11

<400> 37081

cgcgctcctt tcccacgtct ggcgctccgt tcccctccca ggatggcgct cacattccat 60

cgacgggcct caccttccat cgacaccgag gaagttcctg ttcccgcatc gcgtggcgcg 120

tgccaccgtt tctgcacgaa cgccatgtcg ggtgtcggcc cacctctgtg aagcggtttt 180

gccgccggct atggaagggg atctgtgttc gttctcattc ctctattccc ctcccagatc 240

acgtgctgat tccagccggt ccctcaatca acgccattgc ccccgcaatc ccctttcacc 300

gacggcgcgg acctttcaac gacgaagccg atc 333

<210> 37082

<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-G12

<400> 37082

ctccgggagc gcacgctggc ggccatgctt taggccaagg acgcgctgcg cgagggcggt 60

gaatcggagg ccacactggc cgggctggtg gacgactgga aacgtacttg acgtggttgc 120

tgtggattat gttggaaggg ggtgggggtt acgcgacact gttcgccatc tatggacttt 180

acatcggaac gagaccttct agatgatcaa ttatgtcctg gtaccag 227

<210> 37083
<211> 99
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-G2

<400> 37083

caatgatgtg catcactgca ttatgaacgt acgtttggta attgttgtgc aattctttgt 60

acttgtggac aagtgctgta ttctacacat tgtttgcat 99

<210> 37084
<211> 105
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-G3

<400> 37084

accagaagtt tgctcggcgg tatggctntc ttcttcttga ggatgttgca tctcaggatc 60

cactcagtgt ttcagttgca attcttcatc aggtcaacat tttac 105

<210> 37085
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-G4

<400> 37085

cgggccgacc cacgcgaccg ggaaccgagc aaggatacaa ttccaggcaa tgaaaagccg 60

acaaaaaccg cgggagcacc ggccaacgaa acaggcctac ccagggcaga cgacgaacga 120

gaaaagagag caaggacaat ctactgcaca aacaaagaca agaaggccac acaagcagaa 180

ctaaa 185

<210> 37086
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-G5

<400> 37086

acggtgttgg cttctactgc cctttcggtt ctgtttctgg ttcgtgagga tatccggtga 60

tcggtttcgt gggcgagctg atcgagatgg ccattttaga tggtgattac cgctgcttgc 120

tcacagactc gcctgtgcca cctacgacca ctggctacac aacgccttca tcacctacgg 180

ctaggcactc gagtccaaga tca 203

<210> 37087
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-G7

<400> 37087

ggaaccgtgc ttggatatta ttctgtcatg gttctgccgt caaaaactgc cattgcaccg 60

gtcaacgaaa cattcctacc caggtctgac gatgaacgtg aaatgtgtgc aaggactatc 120

tactgcacaa acattgacaa gaaggtcact caagcagatc taaagttatt ctttgagtcc 180

atatgtggtg aggtctttcg gctgaggttg cttggcgact accatcattc tacccgcatc 240

gcttttgtgg aattcgtgat ggcagaaagt gctactgccg ctctcaactg tagcggtgtg 300

gtactgggat ccttgccaat aagggtgagc ccgtccaaga cgcccgtgcg tacccgcgcc 360

cctcgccagc tgatgttgtc ctaggtatac atacaggagg tgctgacgat gccactgctc 420

atatataagt aatagagata gacatgtatg aaaagggtct ttt 463

<210> 37088
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-G8

<400> 37088

cggacgcgtg ggttacagtg cagattttgt taaagagtta tgatgctgat gccgatgcaa 60

cggacaaatg catttggcat gtatcatcag gggagcccag tcagatgcga tgcaaaagcg 120

agaaaggaac cagctattta tgttcaggct acaggcagct tctctttttt ctttctttct 180

cgtgttcaca attttagtga ggaggattgt cgagctgacc ggtgggagaa accagtcgag 240

catttagtag ctttgcacca gatgccattt gcttctgtaa accacacatt atctgcttcc 300

gtgtgtctta gaatggtaat aactcgtcca atctgttttg gtttcatgt 349

<210> 37089
<211> 142
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-G9

<400> 37089

cagacgccct ctacttctct ctagttagtg ttcatttcaa actcttggcc gncgnctcgc 60

tctctgttcg ccgcgccccg ccgcagaaat ggcgctgccg aatcagcagg ttgtggatta 120

ccccagcttc aagctcgtca tc 142

<210> 37090
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-H11

<400> 37090

cccacgcgtc cggaaccagc gccgttggtg ccgacggcaa gaagaaaaac aagatgggga 60

tgggaacggg gctggcagtc ggcgcggcgg ccggcgtgct cggaggactg gcgctggccg 120

gtggggcgag ctacctggag gacaagttcg aggagcgcgt gtcggagagg gtggaggaga 180

acctggagag ggaagattcg tacgggggcg gctacgacaa ctatggcggc gacgacgact 240

actgatcgga tctgatcctc agcttccaat aatttgctgg cttgtgggct tggcttctaa 300

cctcaacctt cgttctttcc gggtgtccaa attaataatt acttggtgga accg 354

<210> 37091
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-H12

<400> 37091

ccttggtatg cattacatac tggtatgcaa gtgttcaatg aagaacctgc tttagctcta 60

atagtaaaaa tttgctctat gctttcaagt gttgactaat acatgttttt atgttatcac 120

gatgaatgga gaactggctt gaaagctctt cgagctgaca gtattagtaa actgaagaaa 180

gcatttccag aactggtcca agaggttaca aggccatcca atttccagga tttctacata 240

tatgcatttc gttattgcct cacagaggat aagaagaaat gtatagaaat accagttgct 300

tgtgagttgc tgaatctagt attaggcttg cagttccgcc ctcaggttga caagcttaat 360

aattacctca tgtaccaaaa tgac 384

<210> 37092
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-H2

<400> 37092

gtgggttaca ttgcagagtt agtatagagt tatgatgcag atgccgatgc aggggacata 60

tgcatttggc atgtgtcatc aggggagccc agtcagatgc gatgcaaaag cgagaaagga 120

accagctatt tatgttcagg ctacaggcag cttctctttt ttctttcttt ctcgtgttca 180

caattttagt gaggaggatt gttgagctga ccggttggag aaaccagtcg agcatttaat 240

acttttgacc 250

<210> 37093
<211> 453
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-H3

<400> 37093

cgaaaaacat tgtgcaatac attagacaga tggatgactc aaagaaggtt ctgttggtgg 60

atggaggcga cattgataag aagctaaagt tggccactca aaaccttcac tacgttaacg 120

tacttccttc cattggcctc aacgtctaca gtatcctcca gcatgacacc cttgtaatga 180

ctcgggccgc tatcaacaga atcgtcgagc ggatgcatac ccccatcaac cgctagctag 240

gagggtttct gagtcgcacc actgtttctt acagccagca acctgtgctt tttcgttccc 300

tgttaaagct cgaaggtttc ctgttatctt ggtgctaaca tggagctgca gcgtcagctg 360

tttattttct gtcagactga aggcaccgac cgaggtaaga gggaaatgat cgggcctttt 420

gtaagcaagt cattggatgt ttattttaga tta 453

<210> 37094
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-H4

<400> 37094

gcgcgacagg atactgagca tgctaaggtt gagcctgaag gaggaggatg tggatttgtt 60

agaagaactg ttcgtgaagg aaggcatcat cttcgatgcc agttccgtcg tggacatcga 120

ctcggtgttc cgggacactg caagcgagga gatctcgttg ctgatgcaag ccgtcgagga 180

gctcaaagaa actgtggaag aagcgttgca gctcacggac gagaacgaaa agcttagacg 240

cagccttcaa gtcgcacagg agatgaccac 270

<210> 37095
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-H6

<400> 37095

gctttctgtg gtatgaatac atatacaagt tagacaattt tacatacaac aagtaccatc 60

cctacacctc atggatccct ataactgttt atatctgcct gcgcaattgc tcccagcagt 120

tgaggagtgc ctctttggtc cttttcgcat ggcttggcaa gattacacta gagacttata 180

tctctcagat ccatatttgg cttaggtcta gcatgccaaa tggacagcca aaatggcttc 240

tttgtttcat accagaatat cctatgctta acttcatgct tactacggcg atctatcttc 300

ttctatcata ccgtgtgttt gagatcacga atgtcttgaa gtcggctttt atccccagta 360

gggataatag ccgtctgtac caaaatttcg ttgctgggat cgccatctct gtgtgcctgg 420

atctctgctc acttattctt ctg 443

<210> 37096
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-H8

<400> 37096

tcggcgcgac aggatactga gcaagtctag ggttatttct gcagaggagg atgtggattc 60

gttggaagaa ctgttcgtga aggaaggcat catcttcgat gccagttccg tcgtggacat 120

cgactcggtg ttccgcgaca ctgcatgcga ggagatctcg ttgctgatgc aagccgtcga 180

ggagctcaaa gaaactgtgg aagaggcgtt gcagctcacg gacgagaacg aaaagctatg 240

acgcagcctc caagtcgcac aggagatgac cactcatgcc cagctc 286

<210> 37097
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-G1

<400> 37097

cccacgcgtc cgcaaaaaaa tgatgatgga ttgagtaact ccagtcaaat gaaattcaaa 60

gatattaatt atgtgaggaa aaacttttgg aggtcaatgc atgaagactc agaacaggag 120

aatgctgatt cagaatttaa ggccactgtt tcacaggttc ttactaatca ccaggaggat 180

aaggtgctcg acaacactga agttcctcag gcatcaatct atagaaactt gtggattgaa 240

gcagaagctt cagcttgtaa actcaaatac gagcttcaac atgctctcct gaagctcgag 300

acagcaaaag gccttaacga cacaataaaa gcccctgact cattggaaga cagtaaaagc 360

tctaactcat acattttcag taacaaacca cagaaccatg ggaaaggaac cgttacatgc 420

gc 422

<210> 37098
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A1

<400> 37098

tccacgcgtc cgctcttatt agctttaggc tctagctagc cgctccactc cttcgtgtag 60

ccatcagcct tctcatcgcc accaatggcc actggcgagg tccagacccc gaccgtcgtg 120

gcggccgagg aagcgcccgt ggtggagacc ccgccgccgg ccgtcgtgcc cgaggagtct 180

gccctcgccg aggccgaggc cgaggccgag gctgctgctc ctgctgatcc cgaggagctt 240

cccgcgggcg agcagcaggc agccgccgag gcggaggccg cggctcctgc tggtgccgag 300

gagcc 305

<210> 37099
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-A10

<400> 37099

tgatattgtg atatcagctg ctggtagtgg ccaatcttgt aaggggaagc tggttaaagc 60

aaggtgcagt ggtgattgat gttgggacaa atccaatcga ggatccaacc agtgactacg 120

gttatcgcct aactggggat gtctgctttg aagaagcagt gaatgtggcc tctgctataa 180

ctccagttcc tggcggagtt ggaccagtaa cgattgccat gcttcttggc aacacacttg 240

attcagcana acgcgtttat ggcctaagtg actgaactga ccccccctctg aactgtaatt 300

ctgtcgtgct tgtcctttgt aaactagttc tcttctcttt tcatccttcc gtcgctctct 360

attttagctg taagaagaag gctgggatgt accatattct tgctcaataa gtat 414

<210> 37100
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A11

<400> 37100

cccacgcgtc cgcccacgcg tccttccacg cgtccgctca aatctgccct tgccgccgcc 60

actgcccgat ccaggtgtgc agactgctcc ctcctcctct ccgctccgaa tggcccgcac 120

gaagcagacg gcgcgcaagt cgaccggcgg caaggcgccg cggaagcagc tggccaccaa 180

ggcggcgcgc aagtcggccc cggccacggg cggcgtgaag aagccgcacc gcttccgccc 240

cggcaccgtc gcgctccgcg agatccgcaa gtaccagaag agcacggagc tgctcatccg 300

caagctcccc tcccagcgcc tcgtccgcga gatcgcgcag gacttcaaga cggacctgcg 360

gttccagtcc tcggccgtgg cggcgctgca ggaggccgcg gaggcgtacc tggtggggct 420

cttcgaggac acc 433

<210> 37101
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E2

<400> 37101

gcgtcgaaaa gagggaggtg agagagagag agagagagat aggagttgca agttggtgag 60

atggatctgt tggagcggaa tattaagacg gagacggggg agacgcgcaa ggaacaggag 120

cgtaaggagg aggtggaggc ggatgccggg gagaggaaga cccaggagcc gccgcagcaa 180

ggccagggcc tcatcctctt actcgccaac ggcagaggca ggtctggaat gttgccgatg 240

tcaaacatgt cagctaatcc ttcacagctt acaattttct atggcggatc agtatgtgtg 300

tatgactcag tgccaccgga aaaggcttaa gcaatcatgc ttatagctgc agctgcagcg 360

gcagcggcag ctaccaaaag cagt 384

<210> 37102
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E3

<400> 37102

acagcattct gtttattgtc tttatcatct ttcttatcgt cactgcattc atcacagttg 60

cactgacata cttccagctt gctgctgagg accatgagtg gtggtggagg tcattcctat 120

gcggaggatc aactggattt ttcgtatacg gctactgcct gtactactac tatgcgcgat 180

cggatatgtc tggcttcatg cagacatctt tcttctttgg ctacatggcc tgcatctgct 240

atgcattctt cttgatgctt gggatggtgg gcttccgtgc ctccttgttc tttgtccgcc 300

acatatacaa atctatcaag tgtgagtgag ctgttgttgg aagatcaaga gcagcagagc 360

tgtacccgtt tttggtgcca ccgagaagtc ccaaatatag aaaaaaaaat ggtttgctct 420

cgcgtgcaac aggagc 436

<210> 37103
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E4

<400> 37103

cccacgcgtc cgcccacgcg tccgggctgt tcgacgtccg tgagggcgtg ccccctggcc 60

ccgtcccttg tcgcctgccc gccggtgccc gcacaggctg ccagtgccat actgccatcc 120

ctccgtccgg ccgtctgccc aggctgcctg cccggcgccc tggcctcccg gtcgctggct 180

ctctgcccag gcgccaggcc gcaggtccca ccgtcccaga ccacccgcga accagtccgc 240

tgcaggctgc aggccaccgt ccctccagtt cgccggtcag attattaacc attcagatac 300

cccagctccg cctagacgcg aatcctccgc cactatggtg gcagcggtgt ccctgccgag 360

ccaagcacag gccgtgcttc ggagccggct ctgcgacccg gtcttcatcc acttccgcct 420

cagtagctcc ctggacacta attacagcaa gctgaagtac 460

<210> 37104
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E7

<400> 37104

gccacgcgtg cgtccacgcg ttttggttgc agtgtgtaaa tgatgctgat aatgatgtaa 60

ctagaacagg acctcacaag aaagaaaaag aaaacaccta gaagcaataa taccaaccat 120

ggacatagga gaacataagc gccggcatgc tgacaagtaa aacattgatc aaccatggtc 180

attactttat ttataacaat cttggaagct tgaccattta cctttcactt atgcgtccgc 240

tgtctggtat agacactatc atccgtcatc gccgaacctt gttgtgtatc cacgaactag 300

aatacacaca agaaatgtgt ttctgccccc catcgtgttg ggagagttga gtttatcatc 360

agagtaagga ccgcgagctt aaatctgtag gtgtcatttc ataagttatt tgatgtagca 420

ttgtgcttga acttgtgtaa tt 442

<210> 37105
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E8

<400> 37105

cagaagtgca ttctcattag tgcgaatttt tttgggtaga ctgtagagta acttgagagc 60

ccgtttacaa ttgtcggcag aaaattaaat ttcaagcaat aaatgtctgt ctgcctgagt 120

tacaactaag gttttggttg caatggaatg gatggacatg gttgggaagc ctaagagaaa 180

ctccaaaaat atttgctatc aggtttaaaa cctgagatct ggtgttatat atgcatctgc 240

agggcatacc ttgcggcctt caacttcaaa attgttatcc ttctggccag tttgtaaatc 300

tggtggctgg ttctaatttc actcccatgt tttgtttcca ggatttgaga aggacatgtt 360

caagctgaag aacgagaagc aagcaatgga gcaagaagcc tatctttggt ctgtctctga 420

tatgtgatcc caactgctgc tccttacgag aggaatacag 460

<210> 37106
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E9

<400> 37106

cccacgcgtc cgcccacgcg tccgcccacg tgtccgattt attttgactc atctgcccta 60

ccttctctgg gttttaggag aattcaattg ataagttcat tgttaatagt aagcagcaag 120

tgcatcggat gaacgggggg tggctcggca caccttgatt tctttctttc tcaatctaac 180

gctctcgtgt ttcttcttgg tcacactgat cagagagcag gttttccatg acatgatggt 240

ggcgcctaat tttgctggtc gtgtgtgccg gatatcgcga tgtcagcaga tcggcatgaa 300

atgctgtcga aaagggagaa agccacaaac ttcaaaccag actatgatat tgatatccat 360

atgaaggtct tagctatgag tgggcaag 388

<210> 37107
<211> 469
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-F1

<400> 37107

cgctttcgcg tctgcgtgcg tgcgtgtgct tgcaggcatg cggctggcct ccgtccgcgc 60

atcctcttct ggcgaggagc tcccccacgc agccgctgct ctctccacgt cctctgttcc 120

ttcccctccc cgatctcccc caatccgacc aaaccggcag agccgggggg cggcgatggc 180

gctgcgacgg gcgctcctca gatcggcaga gatctctttc gaacgcaagg ctgcaattga 240

gtacattcat tctttatcaa gggcacagcc tgctcgttct ctcaatggtg ctggcctttg 300

tcctgctagt agatcactta gcacccaggc cgncactacg tcaagcacac cacagcctnc 360

gncttcccca ccccctccag agaagactca ctttggtggc ctcaaagacg aggatcgcat 420

tttcaccaac ctctatggtc tgcatgaccc ttttctgaaa ggcgcgatg 469

<210> 37108
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F11

<400> 37108

cggacgcgtg ggcttcgagc catcttccat tatggccaag tgcgacccac gccatggcaa 60

gtacatggcc tgctgcctca tgtaccgtgg tgatgtggtc cccaaggatg tgaatgctgc 120

tgtggccacc atcaagacca aacgcaccat ccagttcgtg gattggtgcc cgactggctt 180

caagtgcggc atcaactacc agcctcctag cgttgtgcct ggtggcgacc tggccaaggt 240

gcagcgtgcc gtgtgcatga tctccaactc caccagtgtt gtggaggtgt tctcccgcat 300

cgaccacaag ttcgacctca tgtacgccaa gcgtgccttt gtgcactggt acgtcggtg 359

<210> 37109
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F12

<400> 37109

gcaaacaaac cctagccgcc aggcgcaggt tgtcagggag cgagtaccga gcgccccagt 60

tcacacgtga gatgtcagaa tacaagaacg tcgttggggg gaggctaaag ctgaagggta 120

aggcactgga tgtgaaggaa ggtggagtca agaagaaaaa aaagaagcat cagcttgaag 180

agtcgtctca gattgagcac gatgagctcc acaaaggggg aaactctggc ttaccagctg 240

atcacaacaa tgagcttatt gaagctggca aggtgggaga tgaagaaagg aatctacatc 300

cagactacga ccacctcaca ccggcggagc gacgctatat agaacagaag cagaagatcg 360

acatgcaaaa gctggccaaa gttgccaaca agtcacacag gggaccgtat ccagggactc 420

aaccagtatc tggcgaacct cagcgagcac tatgaca 457

<210> 37110
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F2

<400> 37110

cccacgcgtc cgaaaaataa aacaaaatta taataaaatt ttaaaaaaaa aaaaaaaaaa 60

agggaaaatt ggaaaatata aaaggaaaaa agggctcaca ttttaagggc cagaattttt 120

ttctgtctca tctggggttt cagtttttt ttcct 155

<210> 37111

<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F3

<400> 37111

gtaagacttg ctctttgtgg tggtgcacct ttatcaggtt acacacaaag attcatgaat 60

atatgtctag gtgtcccagc gggtcaaggc tatggtttga ctgaaacctg tgctggagca 120

gctttcactg aatgggatga cacaagtgtg ggtcatgttg gtccaccact tccttgctgc 180

tatgtgaagc ttgtttcatg ggaagaatgt ggttacaaga tttctgatta tccgatgccg 240

agaggagacg tcgtggatgg cggacacagt ataacaaaag gctatttcag caatgaagca 300

tagacgaatg aagtctacaa ggttgacgag aggggtatac gctggttcta cactggtgat 360

attggccagt tccatcctga cgggtgcctt gagattattg acaggaaaaa agatatctaa 420

agcttcagca cggagaatat gtgac 445

<210> 37112
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F5

<400> 37112

cggacgcgtg ggcaccagac ccctgtcgct ctcgtgtgcc ggccggcgac ggcgatgatg 60

gcgactggcc gatcgctcgc cggggtatac tccgccagag ccacccgccc catgcctcta 120

cgcgccggcg cacgggcgcc ctgcgccggt gccgccgcgg ccgagcctgc ggccgagcac 180

gtgcggaggc tcgtggcgga gttcgacccg gcggtcccgc tggactccgc ggtcacgccg 240

ccgagcgggt ggtacaccga cccggatttt ctccagctcg agatcgacag cgtcttcttc 300

cgcgggtggc aggctgtcgg tcacatatgg caagtgaaga acccaaatga tttcttcaca 360

ggaaggtgct tacgtcttgt ttcgatgcct cagtagttcc agttagtagt aattttgcta 420

cgcctttcgt acatatataa ataattttgc tacctcaaa 459

<210> 37113
<211> 450
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F7

<400> 37113

cccacgcgtc cggctgcggg ccagctgccc tgcgcaggcc ggcgccggcg acggcgcgct 60

cgagccgctc gacggctcca cgccggacgc tttcgacaac gcctacttcg gcgacctgct 120

ctcccagcgc ggcctgctcc actccgacca ggcgctcttc ggcggcggcg gcggcggcgg 180

cggcggcgcg acggacggcc tggtcagcgc ctacgcgtcc aacgccggcc agtgggggc 240

cgacttcgcg gcggccatgg tcaagatggg cagcatcagc ccgctcaccg gcacggacgg 300

cgagatcagg gtcaactgcc ggagagtgaa ttaattattt attacagcca cgttgattgc 360

atttgctctg ggggtagtgg aatagcgtgc atattttgca aagaggcaga gaagaattga 420

aatggagcct aagctcatat gtatacaaat 450

<210> 37114
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F8

<400> 37114

ccgcccctcg ccgctccgcg tgtcactcgt cgcttctctt ccattccacc ccgccccat 60

gctccctcct cgcgcgtcgc gatgaaagag gcgcaggctt gagcgagagg tccgcgctgg 120

acaccaccgc atgctaggga ggcagggagg ggagccgagc cgaggacgat ggcgctgggc 180

gtgttgttcc acggcgcgca gctagcgctg gatctggcgg tggccgggat gtcgctggcg 240

gtggcgctcg ggttcttcgc cctcatcact accttgctct gctccgcggc gttcctccac 300

cactccaagc ccgccgcgta gtcatagcct ccacagcgac caacgcgtct caatctctgg 360

ggatcgtaat actgttgctg gtataattcc tccacatcaa ttgcagagga ggtgctttaa 420

tcaactgctt tatagcactt acagatgcaa agagtagt 458

<210> 37115
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E12

<400> 37115

gaatgccaca cccacccatg gcgctcctct tctccccgac cgtttccttc ctggtctccc 60

cgtgtgctcc acgccctcga gctctctccg ctgccgccaa tgtatcctac cccgcctcaa 120

ggctgcaatg caagaacctg tcctcccaac agagccctct gaatgtgact gctacctgtg 180

cttctttcgc tgagaagagg ctggttcttg tccatgccac ggcagagggt tctgaggctg 240

gtgcggagca gccagaagag ccgaaaccag cgaccaagat cgaggaaatg ccgctcgagt 300

cgaagcagaa gatgatcatg gagcaaagag cgcggatgaa gcttgccaag aaactg 356

<210> 37116
<211> 319
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-C9

<400> 37116

gcacaagcgc actctagcaa tggcttctgt tgttgtccgc cctagcgacg ccgagctact 60

aaaggcacaa gccgacatat ggcggctcag cctctcctac ctcacgcccc tgtcactgag 120

gtgcgccgtg gagcttggca tccccacggc gatctaccgc catggcgggg ctgcctcagc 180

cgctgagctg gtcacggcgc tgtctctccc ctccactaag ctgccgttcc tccgccgnct 240

gctgcggctc ctcgccgcgt cgggcgtgtt caccgtcgac aagcagagca cggaagagga 300

gcggtaccgc atcagcccc 319

<210> 37117
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D1

<400> 37117

ctcacctgtg ctcaacactg acgacgccta ttccagtcat agaagttaac gggcctgacg 60

ggaagcccat tggtcctcct atgggaaatc catggatcta catgtaccct gagggcttga 120

aggatctcct tatgatcatg aagaacaaat acggaaaccc acctatctac atcacggaga 180

acggaatcgg ggatgttgat accaaggaga cacctctacc catggaggat gccttaaatg 240

actacaaaag gctagattac atccagcgcc acatcgctac tcttaaggaa tcaatagact 300

tgggatcaaa tgtgcaaggc tacttcgctt ggtctctgct ggacaacttt gaatggttcg 360

ccggctttac cgaacgttat ggcattgtct acgtcgaccg caacaataac tgcacgcgct 420

acat 424

<210> 37118
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-D10

<400> 37118

cggacgcgtg ggcggacgcg tgggcggact cgtgggcagt cgcagcgcac gccatcagct 60

agcaggtagc gcgctcctcg agcccagcag agaaaggccg gcctacccac tctctctctc 120

tctccagtct ccaccggcag cgccaatagt aatagccatg ggctccaccg ccggcgacgt 180

ggccgcggtg gtggacgagg aggcgtgcat gtacgcgatg cagctggcgt cgtcgtccat 240

cctgcccatg acgctgaaga acgccatcga gctgggcctg ctggaggtgc tgcagaagga 300

ggccggcggc ggcaaggcgg cgctggcgcc cgaggaggtg gtggcgcgga tgcccgcggc 360

gcccggcgac cccgtcgncg cggcggccat ggtggaccgc atgctncgnc tgctcgcctn 420

ctacgacgtc gt 432

<210> 37119
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-D11

<400> 37119

aggcaataat atgctttgtt cgtttcatgt tcgtagtcct tattcatgta tgatgtgatg 60

atctcccctc tgatttgtgt aagttgttca cttgctaatc tctttctcgc ttctcagagg 120

taaggactaa tgaagttact ggtatgcacc taggacattg gtttagttga tttccgttct 180

aaaatggtag tgaatgactg aaacttgcca gtggaaacca gttcataagg tggcaagggg 240

aggcatggtg agtccggccc tttccaatcg cctaggttta ggcacatcag cacatgtaag 300

gtgaggcaag gtgatgccat atgccagagc gtaacaaggn gcttgcccag tccaccagac 360

agctcatatg 370

<210> 37120
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D12

<400> 37120

gtggtccctg tctctctcct tcggccgtgt tctccaggcg agcaccctca aggcctgagc 60

tggcaaggtg gagaacttgg agaaggctag agctgccttc ctcgccaggt gcaaggccaa 120

ctctgaggct accctcggca cctacaaggg tgatgctgcc gccgacaccg agagcctcca 180

cgtcaaggac tacaagtact gagttgcttc tctttgcatg cccgttttgg aactcctgcc 240

tacgagctaa gttgcggagt gtggtttgct cgttagagct tattttcgga catccaaaaa 300

acatgcttcc tatgtgggat gatggctatc tttatatttg tatgttagtt agtctctttg 360

ctgttaaatt tcgtgtcagt tggtcctgcc gatggagaat cgagcagtcc tctttatttg 420

gtctatcaac tatgctgtaa tgctggctat gtatcggaaa a 461

<210> 37121
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D2

<400> 37121

acatcgatga cacggaagat tacatcaatt tccagcttga taaccaccgt aatcagttga 60

ttcagctaga gttattcttg agttctggta ccgtctgtct gtcgctgtac tcattagttg 120

ctggagtctt tggtatgaat attccgtata cctggaatga cggccacgga tacatcttca 180

aatgggtggc tcttgtatca gggctttttt gtgcctttat atttgtctcc attgttgctt 240

acgcacgaca caaggggctc gtcggatcct gaatagctga aataaccgcg tacttgcttt 300

cctcaactgt aaatttgagc cagtgagcat cgactttgcg gggtgattca tctgttgtac 360

caaattcggt agtatcaaat tggggatgtc gaataggaac tgtaatagga aaaagttaat 420

gcaaaagaaa tatgctatga ttg 443

<210> 37122
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D3

<400> 37122

gtgctgatga acagggcccc tgttatgcct tgagttatta tgattcggaa agggagcgta 60

tgtttgacca tgacctaagg cgagtgaaag ggttggaaat cagaaagatg gccgaagatg 120

ggaactgtct attcagagct gttgctgatc aagtttatgg agacgcagaa gcttatgaca 180

tggctaggca gatgtgtgtt gattatatgg aaagggaacg ggatcatttc tctcaggtca 240

taactgaaat tgaaaggttt acattatact gtaagaggaa aaggagagat aaggtttatg 300

gcaacaatgt tgagatccag gcatttgcag agatgtacaa tcggcccatt cacatatatt 360

cctacagtac agagcccatt aatatttttc aaggaagcta tctcacagac gttcctgcaa 420

ttagattaag ttaccatcat ggtaatcatt acaattcagt ggttgat 467

<210> 37123
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D4

<400> 37123

cggacgcgtg ggggctcttc aggttgagat tgaatcattt aaagctcatg acaatggatt 60

ggcaaaatca gagttttggg agcctactta tgaagactgc ttaaacatga ttgctcggct 120

ttcaccagtg gcttcttatg tttaccggag aattttcaag ggtggggaaa tcaatataaa 180

actgacaatt ctctggatta tgcggcatat ttctcacaca tgctttggtt tgatgaccct 240

aaaatggctg agcttatgcg gctctatgta acaattcaca ctgatca 287

<210> 37124
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D6

<400> 37124

ccgctccggt cacccgtcac ttcacgcaat tatgtcgagg aggaagacca gggagccaaa 60

ggaggagaac gtcacccttg gacccactgt ccgtgaagga gagtatgtct ttggtgttgc 120

tcacatcttt gcatccttca atgacacttt cattcatatc accgatttgt ctgggaggga 180

aactctggtt cggatcaccg gtggcatgaa ggtgaaggct gaccgtgacg agtcgtcacc 240

ttacgctgct atgcttgctg ctcaagacgt cgcacagcgc tgcaaggagc ttggcattac 300

tgcactgcac attaagcttc gtgccaccgg aggcaacaag accaagaccc ccggacctgg 360

tgcccagtct gccctcaggg cgcttgctcg ttctgggatg aaaatcggac gcattgaaga 420

tgttaccccg gtccccacgg acagcactcg cagaaagggc ggta 464

<210> 37125
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-D7

<400> 37125

cccacgcgtc cgcgctggac cgccagtgct tgcgccttgc cagtgtcatg gccagcaaca 60

tcccgaccag tgacatcggt gtgatcacta gcgcggaggg gaggaagagc atgctgaagc 120

tggccgagag gatggtgatg agcttctgcg gcggcgtgac ggcctctgcg gggcaccagt 180

ggactacgct gtccggcagc ggcgctgaag acgtccgcgt catgaccagg aagagcgtcg 240

acgaccctgg cagggccgcc ggcatagtcc tcaacgctgc cacctcgttc tggcttcccg 300

tcccggccaa gcgtgtcttc gacttcctcc gtgacgaaag ctctcgcagc gagtgggaca 360

tcctctncaa tggcggcgtt gttcaagaga tggctcaca 399

<210> 37126
<211> 338
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-D8

<400> 37126

cggacgcgtg ggcggacgcg ttggtctagt tcgcgacgcg ccctttttt tgtttttta 60

tgttcaaaaa atgtccacac gaatgctggc gagcagagcc gattcaacaa agcgaatgca 120

ggaaaaagaa cagaaatcaa tgctgatcag tgatcactaa agccagtatc tccctaccag 180

atcgtctgaa gcgcgaaaga tgagagaacg cagcggctgc tgacaagtga cgacgactac 240

tgccacgaga agggcatcga cgacgaggtg ccgncgtccg aagagccctc gccgacggcg 300

cttgccgcgc cgacgtggaa cattccgccg tagttcat 338

<210> 37127
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D9

<400> 37127

gtgacccccc tgaccctcca gaggaagcgt tctagaattg ctgacaagaa gaagaggatc 60

gctaagaaga agtctgaggc tgctgagtac cagaagcttc ttgcccagag gctgaaagaa 120

cagagggacc gccgcagtga gagcttggcc aagaggaggt ctaagctttc tgccgccgcc 180

aaggcttctg ctgccacctc tgcctaagaa tgatcagtgc tttgagatgt tttcaaggcc 240

tattttgtta cagcttataa gtaccttatg ctgccctggc tgtgttgcat cagtcgaccc 300

tccctactta gacttatgag taattggtgc aattttgtat ggacatggta cttgcttgtc 360

cggatttttt gagtaccaaa ggttggatat gtggtttaat ctggg 405

<210> 37128
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E1

<400> 37128

cccaccgcct ccgccgccga caacagcgtt ttgtagtgta tttccggaga gggttgggga 60

gagtagtagt gatccgcaat gtcgacggag gaggctgttg tggctgaggt cccggtgacc 120

gaggtgccag cggaggtccc ggcggcccag gtggccgagg cgcccaaggc gaagaaggcg 180

cccaaggaga agaaggcgcc taaggagaag aagctttccg cggcgaagaa gccggcggcg 240

caccctccct acgctgagat gattgtagag gcgatcgctg ccctcaagga gaggaagggg 300

tcgagctcgg tggccatcag caagtacgtc gaggggaagc atggcggcaa gctccccacc 360

aacttccgca agcagctcac tgtgcagctg aagaagctcg ctgccgccgg caagctgacg 420

agggtgaaga ac 432

<210> 37129
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E10

<400> 37129

agaagatcgc gtccaagctg gctgccgact tcaagaagaa gatcgaggac gccatcgacg 60

cggccatcag ctggctggac gccaaccagc tcgccgaggc ggacgagttc gatgacaaga 120

tgaaggagct ggagagcctt tgcaacccca tcatcgccaa gatgtaccag ggcgcgggtg 180

ccgacatggg tggcgccggc ggcatggacg aggacgctcc ggctggaagc ggtggccctg 240

gccccaagat cgaggaggtg gactaagcgg attgtgtcag tctcgtgtgt ctgctgcagt 300

ggctggctgg cccagtcgct gctcgattta tcgtcgtcgt cgcggtgtat ccgcgttaga 360

acctttgtt ggtgaacaat attatcgtgg cacgccgttt aagtatacgg tattctggtt 420

cgggtt 426

<210> 37130
<211> 281
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-E11

<400> 37130

tgcagatgca gatgccgccg ncgcagcacg tggtgctcgc ggcggcgagc cccgactacc 60

tgttcggnct cgacaatggc ttcgtccatc cccccgcggt gaaggtcaag gacccagcgg 120

gcgatccttc cgcggtcagg gagagcgtgc ccgtggagtt accagccaaa aacgaggacc 180

gncatcccat tcccaacccc gcgggcgaca acgtggctgt ctcccctgcg gagtaccagc 240

gccagatccc ggggctcgag aagctgcagg tcgncgacaa c 281

<210> 37131
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-C8

<400> 37131

cccacgcgtc cgcccacgcg ttcgggctgc tcgacgtccg tgagggcgtg ccggctggcc 60

gcgtcccttg tcgcctgccc gccggtgccc gcacaggctg ccagtgccat actgccatcc 120

ctccgtccgg ccgtctgccc aggctgcctg cccggcgccc tggcctcccg gtcgctggct 180

ctctgcccag gcgccaggcc gcaggtccca ccgccccaga ccacccgcga accagtccgc 240

tgcaggctgc aggccaccgt ccctccagtt cgccggtcag attattaacc attcagatac 300

cccagctccg cctagacgcg aatcctccgt cactatggtg gcagcggtgt ccctgccgag 360

ccaagcacag gccgtgcttc ggagccggct ctgcgacccg gtcttcatcc actccgncct 420

cagtagctcc ctggacacta attacagcaa gctgaagtac c 461

<210> 37132
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-B2

<400> 37132

ctccaacaat actgtgcaag gtccagcgcg ttctatgatt gctgatctgt gcggtcatca 60

tgggcctagt gcagccaact caatcttctg ttcttggatg gcgctgggaa acatcctagg 120

ctattcctct ggttccacaa acaactggca caagtggttt ccgttcctta tgacaaacgc 180

gtgctgtgaa gcctgcgcaa acctgaaagg cgcgtttctg gtggctgtgg tgttcctagt 240

catgtgcttg actataaccc tgttcttcgc caaggaagtg ccctacagag gaaaccagaa 300

cctcccaacg aaggcaaacg gcgaggtcga gactgaacct tccggcccac tcgctgtgct 360

caagggcttc aagaacttgc ccacggngat gccgtccgtg ctcctcgtaa ctggactcac 420

ctggctctcg t 431

<210> 37133
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B3

<400> 37133

cccacgcgtg cgggactttc cggacccctt gtcgtggctc gaagagatga tcgagacata 60

cgtgcagact atcgccaagg gcgtccgtag ttatgaggag gccaagaaga ggatgtatgc 120

tactagtgcg accacttacg ttggatgtca ggctgtaatg accgaggaat atgtcacaga 180

aattactctg gtgaagcact ggagtagtat tcattctgcc tagattcata tacatatgca 240

gaaacaaacg agtacggaag acacatatat gactattgtg tcatcagtcc atgaccacca 300

gctgttcatt ataacagacc atatagaact gtcaggaacc gtgtctaccc agggaactac 360

catta 365

<210> 37134
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B4

<400> 37134

tttccgcgga cgctttggaa aaaaattata caaattttta aaaaacaaaa aaaaaaatga 60

ggaacttggg acaacacaaa taaaactaat gtacttagaa tggcactgga aaaacattct 120

aagctattcc tttggttccc acaaacaatt ggtccaaatg gtttccgatc cttatgacaa 180

aacgcttact gagaaacctt ggcaaacctt aaaggcccct t 221

<210> 37135
<211> 429
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B5

<400> 37135

cccacgcgtt cgggacttcc ttgaccgcat tccgtcgcgc gaagagatga tggagacata 60

gctgcagact ctcggcaagg tcgtcgggag ttatgaggag gccaagaaga ggatgtatgc 120

ttttagtacg acgacttatg ttggttttca ggctgtaatg accgaggaaa tgtcagaaaa 180

atttcgcggt ttgcctggag tagtggtcat tgtgcctgat tcatatctat atccagaaac 240

aaaggagtac ggaggagaca aatatgacaa tggtggcatc actccaagag caccatctga 300

tcattatagc agaccatcta gaactgacag gaaccgtaac tactgaggaa actaccagga 360

tggccattca cagtaaggaa attaccagaa caaccggtct tcaccagaac gtggttaccc 420

agaacaacc 429

<210> 37136
<211> 65
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B6

<400> 37136

tggacgcgtg ggaaaaaaat tttccaaaat ttaaaaaaca gaacacgaat aaagggacct 60

tgggc 65

<210> 37137
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B7

<400> 37137

cggacgcgtg ggcagaggat gataaagatt atggcaagaa gaatggcaac tttaggaagc 60

atccaaggga aagcagagaa ccgtgtgtgg aggacccaga tgaagaagaa gaagaagata 120

ataaaagacc taaacataga caatttggga gggagctcag cagatctggt acatcacgtc 180

tacagcctca gacatttatg tttcagagtt caactgttac atatggtggt ccaaatggag 240

cctgttatac atcttcaacg actaggaaga ctggtgcaaa cggagtaagt atatatcatc 300

atctcatgaa tgtttttctt catctgccgc agtttatccc tttcccagac cccacacgtg 360

gaagctttgg cactgggtct gccccttttt tttgcatatt tgtagggtga agggcaagcc 420

tggtgaagtg gtgagagttg tctcattgag tactcat 457

<210> 37138
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B8

<400> 37138

cggacgcgtg ggcggacgcg tttgcgatgt gagagcaatg caagtggttc agctagctag 60

gatagtagcc accgccgaca gacccaccaa acggatcgca gcctactgta catgcataca 120

ccgatcgatc agtgcaggag ggcagcagcg caatgaatta tgaatgcgat gtaccagcgc 180

gtcgtattgg cacagttaat ttgcccatta ccccagaaca tttcgccggg ggtaaataat 240

cttccggtcg gtcacgggag cgagagtgag aaaaaaaaag taagagtact gtatagccag 300

ctattcatgt acttgctgcc ttggccttcc cttcatcgtt atacggtggc gtcgctttat 360

gcatggttta tttat 375

<210> 37139
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B9

<400> 37139

cggacgcgtg ggttgaaatg ttggaaatat atcgcgggct agaaggacga tggccagact 60

atgtactcta ctactctgct tcatccttct cagtaaactt catatacata catatcggac 120

aaaaatgatc ctacagtcta ttatggcact ggcatacatg ggcatgacaa aaataacggc 180

gtagacatta tgaacaagat attgactaat gaaagctatg ctatacatat gaggcacagg 240

aagaacattg agcagatcaa gatgatcgat acgatgacca tgaatttgct ctacatgctg 300

aattagatgt tgctcaggat ctaacatgga caac 334

<210> 37140
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-C1

<400> 37140

cgcttcgccg acctcaccaa cgacgagtac tgcgccacct acctcggcgc caggaccagg 60

ccgcagaggg agaggaagct cggcgccagg taccacgccg ccgacaacga ggacctgccg 120

gagtccgtcg actggagggc caagggcgcc gtcgccgagg tcaaggacca gggcagctgc 180

gggagctgtt gggctttctc aacaatagca gctgtggaag gcatcaacca gattgttaca 240

ggcgacttga tctccttatc tgagcaagag cttgtcgact gtgatacttc gtacaatcag 300

gggtgcaatg gaggtctgat ggactatgcg tttgagttca tcatcaacaa tggcggaatc 360

gacaccgaga aggattaccc ttacaagggc acggacggac ggtgtgatgt caacaggaaa 420

aacgcgaagg tgtcactatt gaca 444

<210> 37141
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-C11

<400> 37141

cagacacatg ggccgacaca aaaggaaact tgaagacaag gtcttcggcc ccgatgcctt 60

cgctgctcac ctcacccgcc tgcctaccct tcgccgtaca ctctgctcga ctnctgcatc 120

ggagctctcc accgtcgcgg acccttcctg caccaccgcg acgccgactc ggtgcacttc 180

ctcgcgccgc gcaagaagac ccgaccgccc ctcgcgatga gctggcttga gaagctgggt 240

ctgagcgggc ttggaggtag cccgcgcgcg tccgacgcgt cggcagcgct ggcgcacggg 300

cccgacgagg accaggccgc gccggggaac gagatcacgc aattacgcgc cggctgcttc 360

tgggg 365

<210> 37142
<211> 372

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-C12

<400> 37142

cccacgcgtc cggggtatat ccttggttat gtaacgtcgc atcaggaccg caacgcggtg 60

tccttggtct gccgggcatg gtacgacatt gagcgtcatg gccgccattc ggtgcttgta 120

agaaactgtt atgcggtgtg cccagagcgt gtacatatgc ggtttcccaa catgcgcgca 180

ctgagcttga agggcaaacc gcactttgct gaattcaacc ttgtcccggc gggttggggt 240

gccactgcaa atccatgggt ggatgcgtgc gcccgtgcat gcccaggtct tgaggagctc 300

cggctgaagt ttatggttgt gactgatgaa tgcctcaagt tgctttctct atcctttacc 360

aactttaaat ca 372

<210> 37143
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-C3

<400> 37143

aaactaagct tcctggagca cccaagtttt ttttgtgtgt tctagcggaa agaaagaatt 60

ctgatattta tgggccttgg aagaagaaat gccttgctga atttgggatc gttacacagt 120

gtgtggcacc aactagagtc aatgatcagt atcttacaaa tgtcttgtta aagattaacg 180

caaagttggg tggcttgaat tcgttgctcc aaattgaaac atccccagca attcctctcg 240

tatccaaggt cccaactata atcttgggta tggacgtatc acacggatct cctggacatt 300

ctgatatacc gtctgttgct gctgttgtta gttctcgtga atggcctctt atctcgaaat 360

acagagcatc tgtccgcacc caatcaccaa aaatggaaat gattgactcg ttgtttaaac 420

cacgggaaac tgatgacgat ggtctggttc gggaatgtct g 461

<210> 37144
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-C4

<400> 37144

caacttcaaa aaggttcggg tttcagaggt tgtaaccttg tgcataccac acctggtttg 60

tgctttgaag gatggaaatg aggctgccca agagagcgtg cttgacaccc tttgcttgct 120

taaagaatct tggccgcaaa tgaatgaaga catcgctaaa gcccagtccc tgatttcagc 180

tgaagccata cctgtactac aaatgcttat gaagacatgt cctcccagtt ttcacgagag 240

agccgatagt ttgcttcatt gcttgcctgg ttgcttgaca gtgaccatca ttcgtgggaa 300

taatctgaaa cagacaatgg ggggtacaaa tgcattttgt tgcctgcaaa taggaaatgg 360

tcctccaagg caaactaagg tggtaaacca cagcatgtgc ccagcttgga acgagggttt 420

cacttggtta tttgacgt 438

<210> 37145
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-C5

<400> 37145

cccacgcgtc cgcagtgtac tgtccaccct ctccctcctc gagcacactg atgtggctat 60

actgctggac aatgaggcca tctacgacat ctgccgccga tcccttgaca ttgagcgccc 120

aacctacacc aacctcaaca ggcttgtgtc ccaggtcatc tcatccctta ctgcctccct 180

gaggttcgat ggtgctctga acgtggatgt taacgagttc cagaccaacc tggtacccta 240

cccgaggatc cacttcatgc tttcttcgta cgctccagtc atctctgctg agaaggccta 300

ccacgagcag ctctctgtgg ctgagatcac caacagtgcc ttcgagccat cttccatgat 360

ggccaagtgc gacccacgcc atggcaagta catggcctgc tgcctcatgt accgtggtga 420

tgtggtcccc aaggatgtga atgct 445

<210> 37146
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-C6

<400> 37146

cggacgcgtg ggcggacgcg tgggcgacgc ttgccgcccc gacgacgacc ccgcctggtt 60

gtgcctacga gtcggttgcg accagagcca tgagcaggtc gaccctgagg ccctggacag 120

gagcttcttt atgcgggtca tggcggcgag aagccccaac gtgaggctac agaaggctat 180

cagcaagaag aaccagagct cgatgctgaa atgcccgcac tctgcgccgc cgaagcaacc 240

gagagctcgg ttcgcgaggc tgagcgcaga gactgagact gcggggaagg caccggcgga 300

gcccaagcca agggtcgagc ggatctgcgc catgcaagcg tccccaattc gcaccaagac 360

agccagggtc gaatgtccca gcgagaggaa gaaggcactg accacgccgc ggagcaaggc 420

cgtccggccg aggcaggagc tgtttcacag tgtgaagcac caga 464

<210> 37147
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-C7

<400> 37147

gcaaagaata acagagataa tgcaaatgat tctttatttt acggtggttg ctgttggccg 60

ttgcttgaac agacaccgtc acgctaaaac gttcttgaca tttgacatat acagccccga 120

ctaagaggaa tcttgcagaa ctggatggca agcgaagttt tggatatctt aagtttgttt 180

cgtcccagtt tgaagagttt ctagtcaaac taggggatat gcattgtagg cagaatgcag 240

gtcacatctt ttttttttgg gtgggtaggt aggaaagtgc tgctttgctt actgtgtggc 300

ttgtaaagcc agaatgtagg atacatgggc ggcagcttac gttaggatag attgagccag 360

tcttaccatt cttttgaaag gaatgcattt tgcatctgat gtaaagctat ttttggtggc 420

cattctctgg tataatccat actgaag 447

<210> 37148
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B11

<400> 37148

ggagaaggac gggtgcctga ccctggggtt gcatacgcgc ccgctcatcg ccacctcggc 60

gtggcgcgtc gccgctccgt gacgtcccca ccgcccccg tacctcgccg gcacagcaca 120

gcacaaaagc acagtggaag ctaagacgtc agtgaacgct gctgaactgc agatagcgac 180

tgtggggcca caacggtcct cgccggagcg acgagatgga cacttggagt ccgaccggat 240

cggcctgtgt tcgttcctgt ttccggtccc ccccttctct cttccccgtt gttccttcaa 300

cccgtcaact atggtagccc gtagccctac tgctacgttt aaatgtgtat tactattacg 360

tgtaattcct cccagcgctg ata 383

<210> 37149
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H4

<400> 37149

cccacgcgta cgggtgggtt ggcttctcct gcccctccgg ttcgggttcg ggttcgtgag 60

gttgttcggg gttcggtttc gtgggtgagc ggatcgagat ggcggcgtcg gatgttgagt 120

accgctgctt cgtcggcggc ctcgcctggg ccacggacga ccactccctc cacaacgcct 180

tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt 240

cccgcggctt cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg 300

gcatgaacgg caaggagctg gacggccgca acatcaccgt caacgaggcc cagtcccgcg 360

<210> 37150
<211> 147
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H5

<400> 37150

atgattgata ttggtaggga gacgatcaag ctgaggaccc ccaatcctta tctttggagc 60

gaagaccata cttttgagtc tattggcact ccgaagaatg ttgtatgcca gcttcattag 120

ccactcccat acagtgtgtc ctgaaat 147

<210> 37151
<211> 432

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-H6

<400> 37151

gcaggatctt ctatatccta tggtccccat cctccgccaa ggtgaagagc aagatgcttg 60

atgcaagctc aaaccaaaaa ttcaagagtg ggctcaatgg cattcaggtg gaactgcagg 120

ctactgatgc aagtgaaatc agccttgatg agatcaagga tcgggctcgc taggcatcat 180

gatcatgcat catggactcg gcctactact gtggatttgt atgccattat agacttggtg 240

ctgtgaaaga ctgcttgatg atttgcgggt ttgttgctgt gtaaaaaaag gtcccatggc 300

tcccagaaga ccatgaaggt tcggatctat catgtaattc cttggtatct gccaattatg 360

tatggactat ggacatgtgt tgcgctgntc aacttactac tacaaataag taatcgatat 420

gttccctttc cc 432

<210> 37152
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H7

<400> 37152

gaagatcgta tgatgatgtc tggaatgcat actgcttctg atatcttatg tgtaggctgt 60

ggatccattg ttggatggaa atatgaggct gctcatgaga agagccatag atacaaggaa 120

tgaaagttta ttctggatag gtacaaggtg tatcaccctt acggaagcct atactggatt 180

acacaagatc ctgaattggg tggtagcgac gccgatgata tatgaagcgt caagtaacaa 240

gttcaaacca tgttgtcatt g 261

<210> 37153
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-H8

<400> 37153

tcgtccacgc gttcggagag tcctgccatc cacaagttct tagcttttgc gagattgaga 60

tgcggctggg acaaacgaca gaagaggaag aacagaaaaa tggggatgga agatggatct 120

tcanatggga accagcaacc ggtgcataaa gaatacgaga tgagaccaca ccacttcttc 180

cagtcaaggt ggaggangac gaggggtttc atgagttcaa tggagcttca ttctctgggg 240

cagttttcaa tctgtcgacc accatagttg gggctggaat tatggctctt ccagcaagta 300

tcaagatgct gggcatcatc ccggngattc tgatgatcat ccttgtggca ctgctcacag 360

aggcatccat cgacatgctt gtaaggtgca gccaccatgg caagattaca tcatatgggt 420

ggttgat 427

<210> 37154
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H9

<400> 37154

aagagagaac accagaaagg acaaacaaga gaaaaatctt aacactgaaa ttgccatgaa 60

gaatcaggag aatcagacag atgatgtgca agttggtcat gggggtgtag atgagctggt 120

taggagaaaa gaagaaaatg acaagagcaa tatttctcgg agtagaacag aagggaaacg 180

acacttggta cagcaccttg agacggagat tgagaaatta tccatccgat ccagcccact 240

tggtaaagac aggcagtaca ataggtactg atttttcaag cgtgaaggaa ggctttttgt 300

tgaaactgca gattccagag aatggggtta ctacaacact aaggaagagc tttgaaacgg 360

caactagaga agttttacag taagataagt tgcatgctac agtaatgtcc tagagaaacg 420

atcaaaagat a 431

<210> 37155
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-A1

<400> 37155

ncgccacgcg ttcgccaaga gccagttgtt ctttgccata aagaacctta taccagaagt 60

tcttttatgc tgtgggaact aatttctcta catagttaag cacatggtcg tgaccacgta 120

tgtcgtggat accatttgcg cttnctttc ccattactaa aaatattatg gtcacaattt 180

gcactttaag ttataatgca gcacagtgct tcactgtctg agtctacaac aacaacaaca 240

aagccttttt ggtccaagca cgttggggta ggctagagat gaaatcccat atgaaaacct 300

cagagctcaa ccccaaagaa aagaaaaggg agataaaggg caaagagaac ccgaaaacga 360

cgaaacgggg aaaca 375

<210> 37156
<211> 327
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-A10

<400> 37156

attacagcta gctgcaaaaa tcgttcatgt attataagca tcaggcagac ttaaaaacat 60

ggtagtctta gaacattgtt ctatatcctt gcagagcaac tagaaaaaac tctcaacaca 120

gcacattcag aggatttatg cgttggcagc agcctgggca gcggcatccc gcttcctttg 180

ctcttctatg atgctcagct tgattccctt gcccttgggc aggctcaccc acggcttatt 240

acccttgccg atggtgaaca cgttgcccat acgggtggcg aactggtngc cccaggagtc 300

ctncacgtga atggtctcaa aagctgc 327

<210> 37157
<211> 340
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-A11

<400> 37157

cacgctgccg tcggaggtca cccgcgcggt gatgctggtg cgcatcaaca ccctcctcca 60

gggctactcc ggcatccgct tcgagatcct cgaggccatc acgaagctgc tcaacaccgg 120

tgtcagcccc tgcctgccgc tccggggcac catcaccgcg tcgggcgacc tggtcccgct 180

ctcctacatc gccggcctca tcacgggccg ncccaacgcg caggccgtca ccgtcgacgg 240

aaggaaggtg gacgccgccg aggcgttcaa gatcgccggc atcgagggcg gcttcttcaa 300

gctcaacccc aaggagggcc tcgccatcgt caacggcacg 340

<210> 37158
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-A12

<400> 37158

gccatgtact tgttgatggc aaggtcagga ctgacaagac ctaccctgct gggttcatgg 60

atgtcatttc catccctaag acaatggaga actacaggct gctttatgac accaagggcc 120

gcttccgtct tcacccaatc agggatgagg atgccaagtt caagctctgc aaggtgaggt 180

ccgttcagtt tggccagaag ggcatcccct acctgaacac ctacgacggc cgtaccatcc 240

gctaccccga cccgctcatc aaggccaacg acaccatcaa gatcgatctg gagaccaaca 300

agatcaatgg ac 312

<210> 37159
<211> 338
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-A2

<400> 37159

caacttcaaa aaggttcggt tttcagaggt ttcaaccttg tgcataccac acctggtttg 60

tgctttgaag gatggaaatg aggctgccca agagagcgtg cttgacaccc tttgcttgct 120

taaagaatct tggccgcaaa tgaatgaaga catcgctaaa gcccagtccc tgatttcagc 180

tgaagccata cctgtactac aaatgcttat gaagacatgt cctnccagtt ttcacgagag 240

agccgatagt ttgcttcatt gcttgcctgg ttgcttgaca gtgaccatca ttcgtgggaa 300

taatctgaaa cagacaatgg ggggtacaaa tgcatttt 338

<210> 37160
<211> 270

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-A4

<400> 37160

atcgccgtcc tcggcttcgc cttcaagatc ttcgactact agaagagccg gttcgtgaac 60

cgcgtcgtgt gcgtccatgt tcaacaccgt tgccggcaag aagatcgccg tcctcggctt 120

cgccttcaag aaggacaccg gcgacaccag ggagaccccg ggcatcgatg tctgcaaggg 180

cctgctgggt gacagggccc agatcagcat ctacgacccc aggtgacgga tgaccagatt 240

cagcgggacc tagccatgaa caagttcgac 270

<210> 37161
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-A5

<400> 37161

gtgacacaag gagcatacga ctcacggaat atcttccagt cactagatct tgcatggaca 60

ttgcttcgga tcttccctcg cgaacttctc caccgtatcc cggcgaagac cttggaccag 120

tactatagca gagatgcctc ccactgaatc actgatcgtt gatcagtgtt ccaatagttt 180

ggcaagtgtt gaatcaattg aacagattgg cttcatggcc ttttccctgt atttatgtgt 240

agtcaggtcc aattcttttc tggtgatgag cgcaaggtta tcgtagatga ctcgcggtca 300

cggcaatatt tgtgatattg aggcatctgt ggactatggg ttaatttcag ttatttggtt 360

tctttcacct ttcagaactg ttagcaagaa cattctgggc caggatgctc gaacacaact 420

ggctgtatgt acattt 436

<210> 37162
<211> 465
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-A6

<400> 37162

attcgacgga gccaaccaac ctcaccaagt tataccaagg ccatgggccg tgacctacgt 60

gttcacttca agaacacccg tgagacagct tttgccctta ggaagttgtc actcaccaag 120

gccaaaaggt accttgagga tgtgattgcc cacaagcagg ccatcccgtt ccgcaggtat 180

tgtggcggtg ttggacgtac cgctcaggct aagtctcgtc actcaaatgg gcagggacgc 240

tggcctgtca aatctgctag attcattcta gaccttctca agaatgctga gagcaatgct 300

gaggtaaaag gtcttgatgt cgataccctc tatgtgtcac acattcaagt gaaccaggct 360

cagaagcagc ggcgcaggac ctaccgcgct catgggcgca tcaaccctta catgtcctnc 420

ccgtgccaca tcgaactcat cttgtcagag aaggaagagc ccgtg 465

<210> 37163
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-A7

<400> 37163

agcgcccaac ccgccggcgg acccaacgct tccgacagta gcacagccac ctccgccacg 60

gcgccggcca ccaagatcgc ctcagacaga acctccaccc ctggcaccac caccttctgg 120

aattcctgtc gaaccttccc caaccagtcc ctcaccgacg tccgcagatc cttcgatccc 180

cactccctct agcccctcgt ctccagggac gacaccgtcc acaccaggct ctggtggcac 240

tccatcggtg ccagccccag caacgccagg tgactcagtt agcccggtaa caaccggggg 300

ccaaggttcc aacaagtcgt cgagtccagc ctcgcagagc agcagctcct cagtagacag 360

tggtggactg tcttctggtg caaaggcatg cattggggta gtcgttgcca ttcttgtgct 420

tagtttggtt ggagcagcat tttggtacaa gaaga 455

<210> 37164
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-A9

<400> 37164

ccccgatctc gtcgagagga agcccaattt cgaaaccgtc gccgtattcc aatggcgccc 60

aaggccgaga agaagcccgc cgccaagaag cctgcggagg aggagccggc ggcggagaag 120

gccacggcgg ggaagaagcc caaggccgag aagcggctcc ccgcgggcaa gtccgcaggc 180

aaggagggtg gcgagaagaa ggggaagaag aaggcaaaga agtcggtgga gacgtacaag 240

atctacatct ttaaggtgct gaagcaggtg cacccggaca ttggcatctc gtccaaggcc 300

atgtccatca tgaactcctt catcaacgac atcttcgaga agctggcgg 349

<210> 37165
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B1

<400> 37165

atgaactgga agccgaactt gaagaactgt ttggagctta gttggaatct cagcttctgg 60

agcctgttgc agctcctccg gtgcatccag tgcatgcccc agccaacaag caaccagcgc 120

gccctgctcc acagaaagct acagctgaag atgatgagct tgctgcactg caagctgaaa 180

tggcattgtg at 192

<210> 37166
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H2

<400> 37166

gttagatatt gatctggcta tcactgatcc ctgtcccatc gctccggtcg acccggtgca 60

ggaagagaac gagagcgatg atgatttcaa cgctcgtgtg cgcaatcatg caccaataaa 120

gatgaagtat gacctttaca aggtaaaatg ggatcaatcg aaccgcaagt gtctgatggt 180

gattaagagc tctattatgg atacaatcag gggagcattc ccagcatgta ccaccgctac 240

agagtatctt agtaaggtgg agagtcactc tactatctct tcaaaggctt atgcatgcac 300

aataattgaa aggctactta ccgataaata cactggcggt ggagtaagag agcatatatt 360

gaagatggcc agcatggctt tcaagctaaa cctatggaaa tggcgct 407

<210> 37167

<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F9

<400> 37167

ggctgatgca tgcccaatca gggcaatgaa gttctctgtc tcccctgttg tgcgtgttgc 60

tgttcagtgc aaggttgctt ccgaccttcc caagctagta gaaggtttga agcgtctggc 120

gaagtccgat cctatggttc tgtgtacaat ggaagaatct ggtgagcata tcattgctgg 180

agctggtgag cttcatcttg agatttgcct gaaggatctg caagaggact tcatgggaag 240

tgctgaaatt attgtttctc ctcctgttgt gtccttccgt gaaaccgttc ttgagaagtc 300

ctgccgcact gtcatgagca agtcacctaa caagcacaac cgtctgtaca tggaagcgcg 360

ccccctggag gagggtcttg ctgaagcaat tgatgatggc cgcattggcc cacgtgatga 420

tcc 423

<210> 37168
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G10

<400> 37168

ttcctctggc gaaccacgcg tccgcccacg cgtccgccca cgcgtccgcc cacgcgtccg 60

cccacgcgtc cgcccacgcg tccggcattc ctgccatctc ccaagacctc ctcagacccg 120

agaagcgcag ctgcggccat ggacgccacc ggcactggag ctggagggaa ggcgaagaag 180

ggagcggccg gtcgcaaggc cggcgggccg aggaagaagt cggtgacgag gtccgtgaag 240

gccgggctcc agttccccgt cggccgcatc gggcgctacc tcaagaaggg ccgctacgcg 300

cagcgcgtcg gcagcggtgc ccccgtctac ctcgcggccg tcctggagta cctcgccgct 360

gaggtcctgg agctcgccgg caacgctgcc aaggacaaca agaagacgcg catcgtcccg 420

cgccacgtgc tgctggcgat ccgcaacgac gaggaagctc gg 462

<210> 37169
<211> 455
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G11

<400> 37169

ttccctgtgg aaccactcgt ccgtttggag aacggctatt taactgacga tggtgttttc 60

tgttctggtt taagcaactc gtgaagcggc aagttctttg gtggcaatca actaagccac 120

agcacgccaa agaaacccca agagaagttc gatgctggtg ttcctgagac gtcacgctct 180

tattctgctg cagtccctgc tggtacaagt agcaagcggc atgctactag gaagtggaag 240

cgctcgctca gtgacccctt ccgttcacgg ccgcacagtg ctccggaatt ggtgtcagga 300

tgcaagggat caccgcccgt gcctgtggct ccagaggaga ggtagccgat gagctacaga 360

agacgtatcg tgttatgttt tttagcataa attgcaaatg aattatgaat attggtatct 420

gaggcatcat ggatgtgaaa aaagtactat gcaaa 455

<210> 37170
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G12

<400> 37170

cccacgcgtc cggtttaagc tatttatgag ctttttatta aagtaatgtt taataatgtg 60

gttcataact cattaacctt agatatataa catatatctt ctctaaaagg ttaaaaaggt 120

ttaatattgt tctaacgtgt tttatcatcc tataaactct taatcttaga catatgtgat 180

atgtctaaga ttaagagttt ataggatgat aaattggtga acctaatatt tgtatatttt 240

aattaagata tttttaagct catgtcttgt tttataaagt atagaacaca catttttgaa 300

aagaatactt ttttattata acctttgcgt gtaatgtttt cgaaaagtga atactctttc 360

tgttaagctt tcttttagct atgcgtatgg tgaatgtcgt atgttattga gtggtgtttg 420

cttcttcttg tttt 434

<210> 37171
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G2

<400> 37171

tcgggcaagc gtacctgtat taacaggaca tttgtctgtt gcttcagctg cagtctgtac 60

ccacgaggac tcctctgccg tttcgtaagc cctccaatat accgagcgca ccaagtcaaa 120

agcatctgat atctatgccc acacctagat caacctgtct gttgccatac acgcagaggc 180

tttacaacag actttgaaag agaaagctcg tctattgcag gaacagacat ggttcgctac 240

gaaatcacac gactactcac acaatgatga tgtatctagc gctgagaagg ctgctggtaa 300

acaggacctg cttagcatag accacaaggc taacgccaag gacgtccaag aca 353

<210> 37172
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G3

<400> 37172

ccgcagaccg ggagtagtcg acgcgccgtc actgaatcct cagatcacgg ctagccgtag 60

tcacgccact ctgctgactc ccggcgagca gtgtaacatt ttccttcagc catgggcaag 120

gagaagactc acatcaacat tgtggtcatt ggacatgtcg actctggcaa gtcgaccacc 180

actggccacc tgatctacaa gctcggcggt attgacaagc gtgtgattga gaggttcgag 240

aaagaggccg cggagatgaa caagcggtca ttcaagtatg cctgggtgct tgacaagctc 300

aaggccgagc gtgagagagg tatcacaatt gatattgctt tgtggaagtt cgagaccacc 360

aagtactact gcactgtcat tgatgcccct ggacaccgtg acttcatcaa gaatatgatt 420

act 423

<210> 37173
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G4

<400> 37173

gcacatgatg tcagcgctgg acgcgcatta taatgctcgc tgagcacaca ctaggcctgg 60

tgcgagacga cacggtgact accgcggagc agagtagcat cttgcttcag ccatgggcaa 120

ggagaagact cacatcaaca ttgtggtcat tggacatgtc gactctggca agtcgaccac 180

cactggccac ctgatctaca agctcggcgg tattgacaag cgtgtgattg agaggttcga 240

gaaagaggcc gcggagatga acaagcggtc attcaagtat gcctgggtgc ttgacaagct 300

caaggccgag cgtgagagag gtatcacaat tgatattgct ttgtggaagt tcgagaccac 360

caagtactac tgcactgtca ttgatgcccc tgtacaccgt gacttcatca ggaatatgat 420

tactggcact ttccaagct 439

<210> 37174
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G5

<400> 37174

cctaccccta cggttcgggt tcgggttcgt gaggttctcc ggggttcggt ttcgtgggtg 60

agcggatcga gatggcggcg tcggatgttg agtaccgctg cttcgtcggc ggcctcgcct 120

gggccacgga cgaccacttc cttcacaacg ccttcagcac ctacggcgag gtcctcgagt 180

ccaagatcat tctcgatcgg g 201

<210> 37175
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-G6

<400> 37175

cggacgcgtg ggcggacgcg tgggccgcac gaaccgacgc actagaccga cccgcgaatc 60

ccccgcgcgc gcgccgtgcg gtcaccgtcc gaggccacgg caccgtcggc ccccgtcccc 120

ggcccggccg tcaagagcaa aggcaaggcc gacgcttcct cctcgtcgtc ctccttcttc 180

actccaccga agttgcgccg cgcgcttgcc gtcgtgatgg ccgcgtcgct gctcgtgctc 240

gccgtggcgt tcttggttgg ctctggctcc ggngggatcg atgggggcgc agcggctccc 300

gtcgaggtgg agggcactga ggtggcctac ggtagtgtga tcaagctgat gcacgagaag 360

acgaagcacc gtctgcactc ggacgatgtg cccta 395

<210> 37176
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G7

<400> 37176

ggtagtcgag atagccttgg aactgcacat taatattaac tgtacatgta taaatagttg 60

tcgtgagcgc acaccatgta atcgtcgaaa ttcatccatg tgttgtgaca ttttttgagc 120

acagttgaac atgtgatgga gcctggaggc aagtcattct caaaaaatac tacttctaca 180

ctaaactgat gttgcaacgc gcgcttgacg tcgagatggc catgtcgctg ctcgtgctcg 240

acgtggcgta cttgattggc tatggattcg aggggatcga tgg 283

<210> 37177
<211> 85
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G8

<400> 37177

gtgatttatg attggtgcta ccttgggctc aaaaacatgt gaacagtcgt tctatgaaag 60

gcgatgtgta cacacatgtt ctttg 85

<210> 37178
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G9

<400> 37178

attcccttgt ggaaccactc gtccggccgg aaaagagatt gcaggagcac cttttatgcg 60

cgtattcaag ccaaggaaat ggcgcgctac cacggcgtgt ccgcggacac tgaccaagac 120

ctcgaggctg gcttctccgg ccactcctcc tcccctctga agcccgcggc ctcgccgagg 180

cggcccggcc gcatgttctg cgacccctgc gacgacggcg acgagctcca cggccgccac 240

cactacctcg acatctgctt ccgctgccgt aaactcctgt ccggcaacag agacatcttc 300

atgtacagag gtgacctgcc gttctgcagc gaggagtgcc ggcaggagca gatcgagatc 360

gacgaggcgc gagagcagcg gctgaagcag acggtgcggg ccgagcagca gcggcagcgg 420

cagcagaagc agagccccca gaggatcccc atctggggcg gt 462

<210> 37179
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H1

<400> 37179

tcgggatgag ctacaggctt cgcaggattg ttgacacctt caaggacctt gtggaagaaa 60

tgagcacctt tggattcaac aagcttgagc ccgaggcaac aacgacatgg aaggagtggc 120

gtgagacgga ttctattatc gttgatcctg aaaatattgt tgccaggtct agacatgatg 180

agaggaagaa aattgttaac ttattggtca atggtcatgt taccgatggt gatcttatgg 240

tcgttcccat tgttggaatg ggaggactag gcaagaccac actcgctcag ctcatctaca 300

acgaccctca ggtcaaggag cactttcatc tactaaagtg ggtatgtgtg tcagatgatt 360

tcaatctccg taatctttcc acaagatatg caatgtgtca gagacaatcc ctgaagatgc 420

cctatagaag cttcaggaac a 441

<210> 37180
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H10

<400> 37180

gttccccagg aagttctggc ctgaagggaa aggaagggag ttcttcctct acgccagcag 60

caggagaggt tactacggag tgtggcagga gttcgagaag cagtaccctg acgccaatgt 120

cctcctggtc accgtgaccg acgaggagtc gaggcgcatc gagcagcagt cggacgagca 180

gaccaaggcg gagatcatgc aagtgctgcg gaagatgttc cccggcaagg acgtcccgga 240

cgccaccgac atccttgtcc cgagatggtg gtccgacagg ttctacaagg gcaccttctt 300

caactggcca gttggcgtca accgctacga atacgaccag cttagggcac cggttgggag 360

ggtatacttc accggtgagc acaccagcga gcactacaat ggctatgtcc atggagccta 420

tctttcaggg tatcggac 438

<210> 37181
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H11

<400> 37181

cccacgcgtc cgcccacgcg ttcgcggaag agagcggaag cctcggttgt gggatgtcgg 60

acgagggcac tccccttgtg atggtcggga agaaggatcc aaatgacccg tcgatcgaat 120

cgagcaccac caccacaacc accacttctt tgagcatggg cgatcagagc gtcgcgagta 180

tggactcgga tgggctgacg cctagcgccg tcttctcaca gatcatgaac cccaaggggc 240

ggtgaggtaa agctggtccc attcgttacc ttgcattcat tcagcatgtt tttttcacga 300

gttcgtgctg ttacggttct ctcgaattaa gaaccagacg ttcgagaatt gtttcatact 360

agatattctg ccttgccctg tacttcttcc ccagtattgc aacgact 407

<210> 37182
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H12

<400> 37182

gttacgcatg aagttatggg ctgaagggat aggacgggag tccttgctgt acgccatcgg 60

gaggagaggc tactacggag agtggcagga gttcgagaag cagtaccctg acgccaatgt 120

cctgctggtc accgtgaccg acgaggagtc taggcgcatc gaacaacagt cggacgagca 180

taccatggcg tagatcatgc aggtgctgcg gaagatgtta cccggcaagg acgtcccgga 240

cgccaccgac atccttgtcc cgagatggtg gtccgacagg ttctacaagg gcaccttcta 300

caactggcca gttggcgtct accgctacga atacgaccag cttagggcac cggttgtgag 360

ggtatacttg accggtgagc acactagcga gcactacaat ggctatgtcc atggagccta 420

tc 422

<210> 37183
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F8

<400> 37183

ggactatcaa ggtcgctgag caccagctgt tgagaagatt agccggtgag gagccaaagg 60

aggatgccta ggttgaccct tgttttattc attcaccccc gttttgcctt cccgggatag 120

atagcttcat cagacaacac agcctagcta cacaatgtgc agacgacgcc caactaaaag 180

ctcaatctga caacagagcc acggctccca gagacgtcgg cacgtcgcac tagtcaagca 240

gcgctaggat gttgtgctta ggcgcactcg ctgaggggac tgcaggccgt gacctagcac 300

cgctgctgtc aggctcgaac cgcaggcctg gcaagtccgt gctcaccctc gtgctctgct 360

tactgatgac atacagcata accaataagg gaacagtagt c 401

<210> 37184
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-E12

<400> 37184

cccacgcgtt cgaacccatt ggatgatgtg gaccgtttgc tggaagatgg ctcattggat 60

gataatgggg aatcttttct atcacaggat gacatgtatc ctagggacaa cttggggcga 120

tgcatggatg ctagtaaagg ttttggtttt tctgaggttg ccaaagcacg tgcaggtgca 180

gccaaagttg tctgttgcca cttctcatct gatggtaagc tgcttgctac tggtggtcat 240

gataaaaagg ttactttgtg gtgtacagat tctctgaagc ctaaatcctt cctggaagag 300

cactcgtatc ttatcactga tgttagattt agcccaagca tgtcgcgcct tgcaacatac 360

tacttcgaca aaactgtgcg ggtttgggat gcagataaca ctgactattc actccgaact 420

ttcacgggnc cattc 435

<210> 37185
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-E3

<400> 37185

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggtg gacttctggt 60

tgcaggcgtg ctggcggacg ggttcatggc gcgtgacctg acgatcgcga acacggcggg 120

ccccgacgcg caccatgccg tggcgttccg gtccacgggc gaccgcacgg tgctggacgg 180

cgtggagctg ctggggcacc aggacacgct gtacgcgcac gccatgcgcc agttctacac 240

ccggtgccgc gtggcgggca ccgtcgactt cgtcttcggc aactccgccg cggtgctcca 300

cgacaccgtc ctcgtcgtgc tgccgcggca gctgcggccg gagaagggcg agaacgacgc 360

cgtcacggcg catggccgca ccgacccggc ccagcccacg gggatc 406

<210> 37186
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-E4

<400> 37186

gtggaatctg atgatgacga tgaggagtca gacgaggact cagaggagga gaagggcaag 60

acctgtgagg agctggagcg tgaggcaagc aacgcggacc gtgagcacgg tgcggagtcg 120

gacagcgagg aggagaggag gcgccgcaag gcaaagacct tcggcaagtc gcgtgcgccg 180

gagcgcagca gcttcaaggg agcgccgccc tccaagaagc caaagttcag gtgaatgctg 240

ccttcggcaa ttcgctcgtg ccaaagtgca gcagcttcaa gggagcacca ccttcaagaa 300

ggcagctctg gttaatggga ctccttgaag ctttggcccc cggagtagac gtgtctgtag 360

gagtgtggtt tgttatatct agattatctg cagtagctta gtccatctaa atgaaatgtg 420

acagctgaa 429

<210> 37187
<211> 402
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-E5

<400> 37187

cccacgcgtt cgcccacgcg tccgctgacg cgtgggggag gcagctctgc ttcctagcta 60

cgatagggtt ggaatagaga atttcatccg tgcaaaatat gaggacaaga gatgggtacc 120

aaggaatgga acatcaaaat cttcgtccag tgttcgagat gagaagagcc aagagtttcc 180

ggctagtgct aataggagtg gacatggtca tagatcttca tttgagcaaa accgtgcttc 240

gacagctctt ccgagcaaag ttgcacatgc agcttcaagg atatcctctc aggcatcacc 300

tcagcccccg aaggtagaaa caccagttcc aaaggtggtt ttacctcctc agtcacagaa 360

atccccccgcc aaagttgatg caacaccggc taaagttgag aa 402

<210> 37188
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-E6

<400> 37188

cagatccttt ggtcgatgga actaggtata aactgcaaga aatacatggc atagggaact 60

ccatggaagg tgatgctaat gcaaatgatc catagaaaga atgtgttatt tgcctctcgg 120

aaccaagggg gatattattg tcctcccatg taggtatatg tatgtgcagt gagtgcgcca 180

aggtcctaag gtaccaaacc acttagtgcc cctgcagccc catctacagg cagcctgttg 240

agagtcgcct cgagatcaaa gtgaacaaca aatctgaaga ttagtagctg acgccctaat 300

caccaccgct cccagagctg cggtgtagtc gtgatcaaat tcaggtctga tgtattatat 360

ggctctaatt tgcgagactt caggccttcc ctcaaggttn gntctctcat ttgagcaacg 420

tggaatgtaa ctgatanctt ttccttagca tatgt 455

<210> 37189
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-E7

<400> 37189

gaggcgactc caggttcgtg ggcgatgctg cgcgcgggag gtaggcagct ccttgccccg 60

gggctccggc ggctcggtct gggcaccggc gccgtcggtg aggtgggccc ggccgtcgcg 120

gcggcgggga tgaaggcgta ccacgagcgg gtggtggacc actacaacaa cccgcggaac 180

gtcggttcct tcgacaagga ggaccccaac gtcggtactg ggctggtc 228

<210> 37190
<211> 330
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-E8

<400> 37190

ataggaaaat cagccaggac tttttattat ccatggatga gagtgaaacg ccgcgtcgcg 60

gtcgccgtcc tggcgggcaa aacctcgcgc gaagcgcctc tctctcactc cgttcgtctc 120

accccaaatt agcgagacct agaagaatct tgaaagtgat cgctccagcg cgtgccgccg 180

tcgtcttctn ctnctcttcc tcatcctnct ccacggaaca gacgaggact ggcctagcca 240

agccacgcca cgccaagagc gtatactgta cgtacatcgt ttgccgagca tgtggcatag 300

tactactata cgtatatata gaaaaaaaca 330

<210> 37191
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F10

<400> 37191

cgcattggtc gtagtggtcg tttcggtagg aagggtgttg ccatcaactg tgtgacccgc 60

gacgactagc ggatgctgtt cgacattcag aaagtctaca tcgtgttgat tgaggagctg 120

cctgccaacg tctctgacct tatgtgatca ttttgaagaa aaacagaact aaatgaacgg 180

tggtggtgat gatctggtta ggcttggttt tgccgaaata ttgttgggga ggagtgataa 240

ggtcggtggg gctgctatgt taaagtcgct gtctatggca atatgcgatt tttctttatg 300

ccatgtcatg ggaaattatg tagctgccta cgccttgtgc tgtcgtggtg gttcattagc 360

atgaatacta aagctctgct ggctatg 387

<210> 37192
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F11

<400> 37192

agattccata agcgcaatca tgtcaatact aatggtggtg tcatcaactg tgtgacctgg 60

ggctaactgg gaatgctgat cgacatttag aaattctaca acatgttgat tgaggatctg 120

catgccaact tctatgacct tatgtgatca ttttgaatat aaacagaact aaaagaacgg 180

agctggggat catcatctaa ggattggtct taccgatata ttataggaca tcagtgaaaa 240

tgttgtaatt attgctatgt caaattcgct gtcattatca aaatgcgatt tttatatatg 300

ctatgtcact gtaaagagta tatctgctta caagttcaac tgtcttgaca tgtaattaat 360

attaataca 369

<210> 37193
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F12

<400> 37193

cccacgcgtc cgccgacccc caaccatgga tgaggcgctt tttgtggagt caaaggatgg 60

gaccatctgg gttgcttctg catttgctgg ttatcaggaa gctgtgcaag acagggatca 120

caaattcttg acaaaagcag tggaagaagc atatcgagga gtcgattgcg gtgacggagg 180

tccatttgga gcacatgtcg tctgtaatga cgaagtagta gtcagctgcc ataacatggt 240

tctgaagcac actgacccta ctgcgcatgc tgaagtaact gcaattagag aggcttgcaa 300

aaagcttggg aaaattgagc tctcatactg cgaaatttac gcgtcctgcg agccatgccc 360

aatgtgctct ggtgcagttc atctctcccg aatcaagagg ctggtttatg gggccaaggc 420

<210> 37194

<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F2

<400> 37194

ctcaagggac ttcaacgacg ggaccacccg ttcagtgacg tataacacgg aagctgacgt 60

gagtcctgct ggtgccgctg gtacacgagc ccacacgatc gacgtctcag gttttgcgtt 120

caatagctct attttgtggg atcctgagcg gtggggacgg ccaacgtcat taccagacac 180

ttcacaggac tcgatcaagt tcgtgcaaga agtgctactt gaagaccgag ctaagctgaa 240

ggggatcccc tccgactgct cccagatcat ggtgtggcag tacagcgtgc ccagctcgcg 300

atagagggca gccgagagga cgcacaagag gcgtcgcaac ctcgcaggca ggggaagaac 360

tgcaaggggt tggatcggag tcgctgtaaa tgtggtgggc gatggtaacg gcaaggtaag 420

caagaaggct gattactaag ggttcttttt ctctc 455

<210> 37195
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F3

<400> 37195

gtcacgcgtc cgattaaagc tcacatcatg ttactgaagg cacttagttc actctatgga 60

gcagtttcag atgctacgta tgacgaaatt tgtgcatatg atgatgagtg tgccatctgc 120

aggggaccaa tgggtcgagc taaaaagttg gcatgcaacc atctatttca tatagcttgc 180

ttgccgtcat ggttggatca agggctaatg gaaggttact actgtccaac ttgtcggaga 240

ccggtcttat tgtcatctga aaggcaaaga aagtctacaa ctgctgaagt agcatatgct 300

catcgaattg ccgaacaact tactat 326

<210> 37196
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F4

<400> 37196

cccacgcgtc cgcgacgcat gcattgaatt ctaaggaacg cactaaaaag actctatggg 60

ggagtttcat aatctaaata tgatcaaaat cagagcctat gaagataagt gagccattca 120

gaaaataacg aaaggctctc tcaaagtcac cgctatgcat ccgtatcttt catacaactt 180

gcttgccatt atgtgtacat caattgacta atgatgaggc tacttctgac cgacctgaac 240

tggaaaaacc ttattgtcac cggactgaca tccatggtct acaattc 287

<210> 37197
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-F5

<400> 37197

gcggagcaac accacaccac ccttggtccg gcactagcac tagctatcca gtggagacga 60

agatggcgac ggcgcggtgg ctgcaggttg ccgccatggc ggtggcgctg ctggcggagt 120

gggcgacggc ggcggcgcct cggaagcccg tggacgtgcc gttccagaag aactacgtgc 180

cgacgtgggc gcaggaccac atccactaca tcgacggcgg gcgggaggtg cagctgtacc 240

tggacaagtc caccggcacg ggcttncaga cgcggggctc ctacctcttc ggccacttca 300

gcatgcacat gaagctcgtc ggcggcgact ccgcgggcac cgtcacggcc ttctacctgt 360

cgtcgcagaa ctcggagcac gacgagatcg acttcgagtt 400

<210> 37198
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F6

<400> 37198

cggacgcgtg ggcgtcggtt cacttctcca ggaaagggtt cgtactcatg gcgccgtcgc 60

agccaaagtc gggcctcttc gttggcatca acaagggtca tgtcgtcacc aagcgcgagc 120

tgcctccccg cccgtgccac cgcaagggga aatcaacgaa gagggtgtct atggtcaagg 180

gcctgatcag agaggttgct gggtttgctc cttatgagaa gcgtatcact gagcttctga 240

aagttggcaa ggacaagcgt gccctgaagc ttgctaagag aaagcttgga actcacaaga 300

gggcaaagaa gaagagagag gagatggcgg gcgtcctcag gaagatgagg tcggctggta 360

cgcacactga catgaagaaa tagagagcat ttcaagttca tggagcctgc cagagattat 420

gttccagtgt ctgattttcc atacatgtag aacctaa 457

<210> 37199
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-F7

<400> 37199

gctgctccca cctctagccc gacaggtgaa gccgccgccg ctgcagtgtc catagccacc 60

gtacgagact gagatggggg gttttgtcaa gacccacaag agcaatgcgt acttcaagcg 120

tttccaggtg aagttcaaga gaaggcgcgc tggcaagaca gactacaggg ccaggataag 180

gctgattaac caagacaaat acaagtacaa tacacccaaa tacagatttg ttgtgcgatt 240

taccaacaag gacatcacag cacaaatcat ctctgctagt atagcaggtg atatggttct 300

tgcttctgct tactcgcatg agttgccacg atatggtctt gaagttggtc tgaccaacta 360

tgcagctgnc tactgcactg gccttctgtt ggc 393

<210> 37200
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-E11

<400> 37200

cccacgcgtt cgcccacgcg tccgcccacg cgtccgatgc actctctcat ggtgactccg 60

aaatttcaca gccaaaacgc aagcagcaaa ggagcactac tcagactttg agagtggttg 120

gaggagaaat tgattccaac tgcagcccat cagttctaga agaaaaatgt tcaaagaatg 180

aacatgatgc agtcccagtt ggtttatgtg ggaagggacc acaaaatccc caagcagagc 240

attcagagga tatttcagtg tctgcatctg aaccgtcgaa cggacctggt gttgtggact 300

ctgaggacaa ggatgaagca gatgaggagt ctgacgatga aggcgaggac gaggaggaag 360

agaagacgtc atcggcgaag aagctgtggc gtttcctcat cacatgattt atttatcttt 420

gtcgtacgat 430

<210> 37201
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C8

<400> 37201

cctactcctg cgatatgcta caggcttttt tgtcttgctg cttatctgcc tattgtgagg 60

gccgtactta ttaggatctg ggcctgcaag aaccggcaca actgcaacag ctgtgatcgc 120

ttgcagctga ctcatcgcat taaacggcca cagagatgtt tatataatgg aactggcctc 180

atactaattc atcgagctga atgtatgtct ccatagtctt gcacccaact tcgaactcat 240

tagctcttta ttgttgcaga acagttgctg tcagactgct atactgtgat gatatgatcc 300

attctttgtg gacacagaga tta 323

<210> 37202
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-C9

<400> 37202

cggcaagcgc agggggggccg cgggcgattt ggtggccgca gtcgaggtct cgcaggtcgt 60

cggcgtccgg acgaggtcca ggtccgcggc ggcgaccggc ggcggtgtcg cgaaggtcgc 120

tccgccgagg aggaagaagg cgctgctgcc cgccgcgaac gagacggcgt cgggggagcc 180

tggtgccgtg ggcggtggtg gtggggacgg cggaagctgc tgctacatcc acctgcggag 240

ccgcatgctg ttcatggcag cacctcagca gcaaccgtcg gcggctccga cacccgcgga 300

ggctgctggt gcggcacagc agggcggngt ggtggcgctc gcggctggcc tctcgcgttg 360

ctccagcacg gcgtcgtcgg tggacgtcgg gggccagcag cccgcgagcg ggagccacgc 420

ct 422

<210> 37203
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-D1

<400> 37203

tcgcggacgc gtggggtggc aaatgcagtt tcagccagtt tttccgttca tagcagcaca 60

gtgagaggat tgagatggct tggcaactca cgtcttgttt cattcacata taatcaggtt 120

aatgantaaa ctggtggata caataataaa cttgttatta catgcttaag aagtgggcta 180

aatcgctcat tccgtgtgct ccaaaagcct gaacgtgcac cgattagagc attgagggct 240

tcttcatctg gacggtacct tctaattctg tttcgcgatg ctcctgttga agtgtgggct 300

atgacaaaga accccatgat ggtccttggc gctttctttt acagtattag aatggacact 360

gtcagctgca ccttcgccag gtcaaaatgc atcatctaaa cagtcttcaa cctccaagga 420

gcgatcagc 429

<210> 37204
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D10

<400> 37204

ccctttcgac ccacgcgttc gcccacgcgt ccgcccacgc gttcgcggac tcgtgggctc 60

tattttgaat tttgatgata gggctttaat tgaaattgcg gatatgttga acataagtct 120

tgggagtaat aaagaagaaa ttaaatcaaa tcttaagtct atcaaagaaa tggagaaaga 180

taggcaaaat aataaggtct cggaacctga atctaaattg aaaagattgg aacaggatag 240

agataaactt ttagaaaatg aatgtgaagg agatggagga gatgattcaa agtttgttag 300

aaagtgggtc tgagaaagaa gttgaggaac cattggacaa agaaaaaatg gtcagaaaag 360

agaaaaaagt ttctcttaga aaaaaaggaa aaattattcc cccaaaatag gtgtaaacca 420

aataaaggga ggaaacataa acaaaaaaat atcag 455

<210> 37205
<211> 100
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D11

<400> 37205

cccacgcgtc cgcggacgcg tgggcaatga tccacagcat cgttgatata tataatatag 60

agagaaaatt ctctgcacgg tcaatgcagt tttatccggt 100

<210> 37206
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D12

<400> 37206

gttatgctcc ccagccgcca gaatagtatc cagccgccag gaagcatggc cgacggcgcg 60

gttctcatcc tttctctgtt tctgttcttg cactgccagg ccgtgccctt tcccactggt 120

gatggcgagt agctcaactg gcccttaccg ccaacgagtg cgtccccatg tgagggtgcg 180

cggtcgtcgg tcggtggccg gtgagagctc ggctagccca aaaaaaaaca aaaatatgtc 240

ggccatcggc ttttgaacct tgcccgacga ccaaaaccgg ccgcctctcc tctctgttca 300

tgctctttct aatctctgtt tctaagttcc agaccgctca cccaagaacc ggtcgccacg 360

agcttgggcc gaccgagcta tccttttctc cctgctcctt ttggccgttc gccccttctc 420

cttctttgat tctg 434

<210> 37207
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D2

<400> 37207

actggttcct gactatgcaa tgtcattcat caagggcaaa tcactcaagc cgtttgggcg 60

gcctgtggtg ggacgagaca gttcctacag ttgtaaccag agcagagcct cacaaccagg 120

ttataattca tccgactcaa gcaagggtcc tcactatccg ggagaacgca aggttacagg 180

gcttccccga ttactaccga ttgtttggcc cgatcaagga gaagtacatt caagttggga 240

acgcagtggc tgtccctgtt gcccgagcac tgggctactg tctggggcaa gcctacctgg 300

gtgaatctga ggggagtgac cctctgtacc agctgcctcc aagtttcacc tctgttggag 360

gacgcactgc g 371

<210> 37208
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D3

<400> 37208

gtcgaacctc cactgagcac aatgttccct ggtatcgctg atcggatgag caaggagatg 60

acttcccttg caccaagcag catgaagatc aaggtcgtcg cgccacctga gcggaagtac 120

agtgtctgga taggagggtc gatcctagcc tcgctcagca ctttccaaca gatgtggata 180

tcaaaggagg agtacgatga gtctggcccg gcaattgttc acaggaagtg cttctaggtt 240

tctgccaagt tcgtcaagtg cttttagggt ttgccatgtt catcatcgct acctagtctt 300

aagttatgcc cccttcattt gctgagatat gtgtggcaga tttgcatcgt tttggtattt 360

cgtggctcca tgtgtgagca tgctgtgtcc tataacctgg tttatgagat gag 413

<210> 37209
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D4

<400> 37209

cccacgcgtc cgcccacgcg tccgacacat tccaccggca ccaacccagc gcggcgccac 60

cggcgacccg tacccccttc cccggagagc gatggcgacg gagctgacgg cggcgcagct 120

gcgcgcgtac gacggcaccg acccgtccaa gcccatctac gtctccgtcc ggggcaaggt 180

ctacgacgtc accttcggcc gcggcttcta cggccccggc ggcgcctacg ccgtcttcgc 240

gggccgcgag gccagccgcg ccctcggcaa gatgtccaag gacgaggccg acgtcttcgg 300

ggacctctcc gggctcaccg acaaggagct cggcgtcctc gccgactggg agaccaagtt 360

ccaggccaag taccccgtcg 380

<210> 37210
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D6

<400> 37210

ctagttctag atcgctacgg acgccttttt ttttcttcta tttttcacct tttaacgccg 60

ttttttttaa ttgtttcatc ttcatttatt ttttctttat tttcagaaac ccccattaaa 120

cccccaactc caaatctcct ttcaaaaaac cttttgaaaa ttctaatcca acttccagta 180

ctaggctttt aaacattacc aatacattcc caaaaaaaaa accaaacaaa accccagccg 240

gatatataca cgctctactg attaacatat ccttttccag gcca 284

<210> 37211
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D7

<400> 37211

ccactcgtcc gcgcaacggc cgcctttttt tagatccgtg taatcacccg cttaggtggg 60

gatttttgcc acagtggagg ctatattttc gacacttttt attgcaaaac gctatcgaaa 120

ctcaaacgtc aaatcagcgg tgtgaaaacc ttttgaaaat gaagatccag cag 173

<210> 37212
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-D8

<400> 37212

ctccgctggg ccaccagctt tgaccgccgt ctcccttccc ctccgctact gctcctgcgg 60

accccactcc cccgcaggag cggcggcggc ggcggcgagg tcgtacccca catcggcgag 120

cggcggcggc accgccggag gcaaaggcaa gatgttcggg cgcgcgccga agaagagcga 180

caacaccaag tactacgaga tcctcggggt gcccaagtcg gcgtcccaag acgatctcaa 240

gaaggcctac cgcaaggctg ctatcaagaa ccaccccgac aagggcggtg accccgagaa 300

gttcaaggag ctcgcacaag cctatgaggt tttgagtgat ccagagaaac gtgagattta 360

tgatcagtat ggtgaagatg cccttaagga gggatgggcg gtggaggatc ccatgttgat 420

ccatttgaca tnctctcatc at 442

<210> 37213
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D9

<400> 37213

ctccactcgt cctcccactc gtccgcccac tcgtccgccc actcgttcgc ggacgcgtgg 60

ggggactcgg ggaagctcgc ttatccgagc gcatctgcta agtcgtttgc tcttcatggt 120

tatctgaagg ttttttattt caccttgaat attgactact gacattacca ttacctttt 180

gttgggacta aagtttagta tattcgtctt attgtttagt ccttatctgt ataattattt 240

tatttttata ttatatgtaa tacttctaaa tatcattcaa atatttgatg ttctaaatat 300

cattcaaata tttgatgtga aaaccataat ttttttatat tttcataaaa aaaatttttt 360

ttataaatct aaaatgaaaa atctctttta tttttcaaat taaaatattt atttttttt 420

gaaaaaatat ttattatt 438

<210> 37214
<211> 336
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-E1

<400> 37214

gaactacggc cgcgtggcga acaaacctgc ccaacccagc ggcggttgtc cactggtcag 60

gcagcagggc gtctcgcagg tgaagctgtt cgacgccgac cccaccgtgc tgggcgccct 120

cgcgaacacc ggcatcaagg tggtggtggc gctgcccaac gagcatgtcg cggcggctgc 180

gtcgcgcgcg ttctacgcgc tgctgtgggt gcgccggaac gtggcggcgt accacccggt 240

cacgcagatc cagggcatcg ncgtgggcaa cgaggtgttc gcgtcngcca agaacgtgac 300

ggcgcagctg gtccccgcca tggccaacgt gcacgc 336

<210> 37215
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C5

<400> 37215

gggatgcaca tggccgaaag atgtcaaaat cacttggtaa cgttgttgac cctcttgagg 60

tgataaatgg catgtcactg gatggtcttc tgaaacgttt ggaagaaggc aatctggatc 120

caaatgaatt aaacattgca agagatggga agacgaagga ttttcctgat ggcatagcag 180

aatgtggtac cgatgcgctc cgcttcgcac tgatatcgta cacctcccag tctgacagga 240

taaatcttga tatcaagagg gtggttggat atagacaatg gtgcaacaaa ttatggaatg 300

ccattcgttt tgcgatgggc aaactgggtg atgattacat tccgtcggca actgttgatg 360

tgtctcttat gccaccaata tgcaagtgga tactctcagt gcttaacaag gg 412

<210> 37216
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-E10

<400> 37216

cggacgcgtg ggcggacgcg tgggcggact cgtgggctgt cgcgtgggtg acacaccagg 60

gtcctctggt cagtgcatac tcatcattcg tgagtatggc tggtgttggc tatgatttgg 120

atcaccagcg aaggaggatg gaccctggga caaatgagcc attgttcaca aattgcacaa 180

gggattttac cggtacccta gattacatat tttacacagc ggattcattg actgtagagt 240

cattattgga gctgttggat gaggatagct tgagaaaaga cacggctctt ccttctcctg 300

aatggtcatc ggatcatata gcgctcctag cagaattccg gtgcaagctt agagttagac 360

gatgatactt taggaggagc tgtaggggag ggattcttga caatcgcatg agatgatgag 420

aatggtaccc tggccgaa 438

<210> 37217
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-B10

<400> 37217

attcctactt ggaaccacgc gctccggcaa cacctgcgga tgcagcggat ctggcggtgg 60

aggaagcggt ggcggaagcg gatctggcgg cggacctacc agcggtcctt gcagcgtgga 120

ctcgctgaag ctcgccctgt acgccaactt gctcaacagg ctgatcaacg cgaccatgaa 180

gacgacgctc aggacgccgt gctgcacgct gatccanacg ctgacgcacc tgcaggcgga 240

cctgtacctc tgcaccggcc tcagggccaa cgtcctgggc atcaacctga acctgaccat 300

caacctgagc actatcgtca actactgcgg caagcacttc cgctcgggct tccagtgctt 360

ctgactatga cactcacatt gatcgatcga tctgcaggct aaacaatatg ttcaagctag 420

tatacgtacg tggatacata catgatgtaa tatta 455

<210> 37218
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B11

<400> 37218

cgcaagagcc ttatcttatt ctttctggct ggcattgatc cagtacactg atgcggctac 60

tgcttcagct gctagagaat ccttagatgg aaggagcatc ccaagttact tgcttccgga 120

gcatgtaaca tcctgctgcc tgcgaatttc tttttctgca cataaggatt tgaacatcaa 180

gtttcagtcg aaccgcagca gtggaaattt gcgcatgtta cattcagtaa gccagaatac 240

ctccaagatt cagatattgt aatgaacaga ttccatagac ctgtttatgg aggttgggaa 300

caacaccttg gattggagca tacaaccact accccaaaaa ggtcctactt aggcaacaac 360

cagaaccgcc attcttttga gaaacctgtg aggatttaca actaaagctg ggaatacttt 420

ttacatgtga tgaaatga 438

<210> 37219
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B12

<400> 37219

aattcctact ggtaccactc ctccgaaaaa aaaaaaaatt aaaaaaaaaa atttttttaac 60

<210> 37220
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-B2

<400> 37220

cccttatcgc cctcgttatt tacatcgctg ccaccctcct ctccgccgtc gccgccgccg 60

tcggggatgg ggggagcgca attncccggc gacaacgacg tcgcggaagt agacgcggac 120

cgcgacggat aggtggaccg ccgtgacgtg ggcaagatga agcacgggtg cgagcattac 180

cggcggaggt gcaagatcgt ggcaccgtgc tgcaaccagg tgttcccctg ccgtcactgt 240

cacaacgagg ctacggcttc cggagatcgg catacaatat gtcgtcagga tgttgaaaaa 300

gtagtttgcc tactctgtga aacaaaacag ccagtgtcac aagtgtgcat aagctgtgga 360

gtcaatatgg gagagtactt ttgtgatata tgcaaaattt atgatgatga 410

<210> 37221
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-B3

<400> 37221

cccacgcgtc cgcggacgcg tggggaaatt gatgatgcgt gatctgaaag ttcatcctgc 60

gtggaagctg cttcattcgc cagatcagcc catctgtaac tttaccggat caaggtctcc 120

agaatagaag aagggaaaat aacttgcttc tttgtatgag ctgatttgag cacaataagg 180

ctttgcttcg tacttgagtg attcaggtgt tactagtcct actgttaaga tgaattgtag 240

ccagagacac ctatttttac ctcaggaagg gatcttttga gcaggtagat gctactacag 300

ctagacgcac ttgcaaagct tcctaaatat ggtcatctag tgttaacaga gacttatggt 360

gctgtgagca atatngaaaa ttggttgcaa tctaattgct tacaatatga tttagatagc 420

gtaagtttct gaagatgat 439

<210> 37222
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B4

<400> 37222

gtcattgctc gcgtgacgcg tcggctactt catcaggcgt cccatcatag ggcattacgg 60

agggtagatg cgttatgcta cagatcatgt aaattcgacc tgatcgcaac tagagtacct 120

actatataca atgtgaacct acctagactg tttagatcat ctgacataga gcaccactag 180

cttatggatc agacttctat gagtcaggag ttactcttgc ta 222

<210> 37223
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-B5

<400> 37223

aaacgaaaga gcccgtgtga accggagagg tgaggaaaag aggaaaaggg agacataaat 60

tggaggccat tatcaagaaa ccatgagttc taagttcgca atccctaatc ctgatctcac 120

ttaagcgctc gtgagctctc tccagtggct aaagattgca gatttgagtt atagtccaag 180

aaacgggtgg tggtccgcca tggaagtgaa gtccgagcaa gggctgatgg cggggaagga 240

tctattcggt atgccaaaga gcccgccggc gccggtttcc gggccgtcgg cgtncgccgt 300

catgcagagc gtgcgcatgg cgtacacctc ggacggcacc gctgtgttcg ctccgatgag 360

c 361

<210> 37224
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B6

<400> 37224

gaagcagaat cctgcttaca aaggcaagtg gcatgcacct atgattgaca accccaactg 60

caagggaatc tggaagcctc aggagatacc caaccctgag tactttgagc ttgacaggcc 120

tgattttgat ccaatcgctg ctattgggat tgagatctgg acaatgcatg atggcatcct 180

gttcgacaat atcttgatta ctgatgatga gaaagttgcc accttcattc tcgagaagac 240

ctgaaagccc aagtatgatg ttgagaagga aaaggagaac gctgaagagg ctgctgctgg 300

tgcagatggt ctctctgact tgcagaagaa gatttttgac gtgctgtaca agattgctag 360

atattcgttc ttggcaccct 380

<210> 37225
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B7

<400> 37225

gacgcgctgg cttctcttca ccctcctgtt ccttgtacgg atcatgaggt actccgaggt 60

ccggttaccg ggtcacccga tcgagactca atcctgagat gttgaatacc gatgcttctg 120

acgctgactc aattgctcca atggcgacca atagctccac aacgcctgca tcacctactg 180

ataggtacat gcatgcaata tc 202

<210> 37226
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B8

<400> 37226

ccagcctcca gcgccttcac cctgctcgtc gcctcactcc ctctgaggtc gcagatacgg 60

ccggttagac gaagccgccc gcacgcatgg cctccggtga gctcgcctgc acctacgccg 120

tcctgatgct cagcgacgac ggcatgggca tgaccgccga gaagatcgtc accatcgtga 180

aggcgggcaa catcaagctc gagtactact ggccggcact cttcgataag ctcctggaga 240

agcgcagcgt cgaggatcta atcctctccg atggatctgg tggtggcgct gctgca 296

<210> 37227
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B9

<400> 37227

gacccctca cttcattccc tatgttcgcc gccactccct gacatcgaga ccggctgcgc 60

cgaccccggt ccggcgatcc ctctgcaccc ctttctttgc gctgccagcc ccaatctctc 120

gcatacctgt caaccatggc ggcgtcagca ggcggaggcg cggtgcgcgc gctgtcccag 180

aaggagcagg acatacagat gatgctcgcg gccaacgtcc acctcggcac caagaactgc 240

gatttccaca tggaccggaa tgtctttaag cgtggcacca acggcatcta catcatcaac 300

ctgggcagga catgggataa gct 323

<210> 37228
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C1

<400> 37228

cccacgcgtc cgaatataat ggatcttact ttggagattc atggctgggt agagtccttg 60

caagatgctt tgacacagtt cactgctcct gaagatttag atggtgataa tatgtataaa 120

tgtggaaggt gttctgccta tgttaaagct aggaagcaac tgatcgtgca tgaggtgcca 180

aacattttaa cagttgttct taaaagattt cagtcacgaa aatatggcta gatcaacaaa 240

tgtgttactt tccctgatat gttggacatg gttgccttcg tgactgggtc tggtgacaat 300

cccactctct atttctagta cgccgtggtt gtacatgtcg atacagacaa tgcatcattc 360

tctgggcact atatatcata cgtcatagat atgcacggta catg 404

<210> 37229
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C10

<400> 37229

gtcccgaatt cccttggcga accacttcct ccgcgttggt tgccaggacg gcgtgacgaa 60

tgtgacatgt ggcgctgtcc atggagatgg ggacgccggt tgccaagatg tcgccgcgaa 120

attggcagca gaagccatgg gatcagatcg aaacccaagg tagccgatac cagatgtaat 180

ggtcgctaga tcggtgaggg attggagagg ggtatcgatg ggcaggaaca ccggccgggg 240

gcctctgccc acggccgagc aagaggaggg tttgtccctt ctaattcttg cctactttat 300

ttctcatcca ttgattacat aaataggcta gctagccgtc cctatctaac tagagatcct 360

tatctgctta aaactctcct aaaaactctc aacaactact atctgataac cttcctagat 420

aatctcaact aatctcctag ataatctcaa ctaatcttct aatcttaatc t 471

<210> 37230
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C11

<400> 37230

ggttcccccc tcacgtttgc tactactttg gaacaggagt acaagagtga tatctttgga 60

gagcgaggca tcttgctggg tgctgtccat ggtatcgtgg aggctctgtt taggaggtac 120

acagaacaag gaatggatga agagtcggcc tacaaaaaca ctgtcgaggg cataactggg 180

atcatctcga aaaccatctc aaagaaaggg atgcttgaag tgtacaactc tttgagcgag 240

gaaggcaaaa aggagttcaa caaggcttat agcgcatcgt tttacccatg catggatata 300

ctctacgaat gctatgaaga tgtggcctct ggaagtgaaa tccggagcgt ggtgttggct 360

gggcggaggt tttatgagaa agagggcctt ccagcttttc cgatgggcaa catcgaccaa 420

actcgc 426

<210> 37231
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C12

<400> 37231

gcttgctact gaacagggaa tctataacgc tacgtaaagg tcgttcactg gacgaggaat 60

tactacatag tgactgtaaa aaatcagtcg ttaccgaatt aaagtgatca tcaggacatc 120

catctttaag aaggcgacgg ttgatggaag atgcacatga gagacgaacg ctctaacagg 180

tgcacaatct gtatgaccaa tgggacgcac ccatacacgg ttgttctata tgaatggtat 240

aacagggtac gctctgggag atcgattctg atatcagcgc tctatagccc gctgct 296

<210> 37232
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C2

<400> 37232

tccgctcgtt cgaatataat ggatcttact tagtagattc atggctgcgt agagtcctcg 60

cgggattctt tgacacagtt cactgctcct gaagatttag atggtgataa tatgtataaa 120

tgtggaatgt gttctgccta ttttaaagct cggaagcaac tgttcgtgca tgacgtgcca 180

aacattttaa cagtcactct taaaagattt cagtcacgaa aatattgcaa gatcaacaaa 240

tgtcgtactt tccctgatat gttggacata gttcccttcg agactgggta tggtgacaat 300

tcgactatct atttctagta ctccg 325

<210> 37233
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B1

<400> 37233

cccacgcgtc cggttgcagg ctgggctccc cgagggtgtt ctgaacgtgg tgtccggctt 60

cggcccgacg gccggcgcag cgctctccag ccacatgggt gtcgacaagc ttgcgttcac 120

gggatcgacg ggcacggggc agatcgtgct cgagctggcg gcgaggagca accttaagcc 180

ggtgacgctg gagctcggtg gcaagtcccc tttcatcgtc atggacgacg ccgacgtcga 240

ccaggccgtc gagctcgcgc accaggcggt cttcttcaac cagggccaat gctgctgcgc 300

cgggtcgcgg acgttcgtgc acgagcgcgt gtacgacgag ttcgtggaga agtccaggcg 360

cgcgccctga agcgcgtcgt 380

<210> 37234
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C3

<400> 37234

tcggttgact ggtcgtagat tgttgtacga ccttttttgg tacaatgacg attacatctt 60

gtacgattac ttcttggaga aagaaaagtt acacaaattc agttttgctc aatctaggtt 120

taatttcata acttctcgag ttatggttcc tgtttttaac gtttgggttt tactaaactg 180

cttctgattt aatatctttc tggtctcact cttagtcttc gttcgacctt tgcaaaatta 240

gatacaattt tctgctcgtt ccacacaatt ttgctcctct cttggtggtt tagatgtgag 300

tttccttaga tcaatacgtg tagcccaagc acattaaagt caacatccat gttgcttggt 360

catacacaaa ggttagtctt tttt 384

<210> 37235
<211> 169
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-C4

<400> 37235

tccacgcgtc cggcttcttg ctgcaggttt catctgctcg gggagttcga taaggtgaag 60

cggagctgca ggaagcgcct cgatggacac aaccgtcgnc gtcggaagcc gcagccggac 120

cctctaaacc ccgccggctt gtttggcaat caccacggag tgacaagat 169

<210> 37236
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H2

<400> 37236

attcgctggt ttccacaaaa taagattgtc aatatctact acgtacttat gctattctgc 60

atgtgatgta cgagtgtgca tcttcaagaa tctttaagtt gaatggtccc ataataatat 120

tgataacaat gt 132

<210> 37237
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H3

<400> 37237

cccacgcgtc cgcccacgcg tccgaaatat aaatataaaa aaaaaaaaaa aaaaaaaaaa 60

gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag aaaaaaaaaa 120

aaaaaaaaaa aaaaaggaaa aaaaaaaaaa aaaggggggg cgtttttaaa ggtcaaaatt 180

ttggatacgg ttttataaaa taaagatgga aaaaacgtgc ccttaaataa aataacaggg 240

gcgcagtata tacacctttg gacaggtgaa aaccttgggg 280

<210> 37238
<211> 79
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H4

<400> 37238

cccacgcgtc cggccatgag tccgagcgtt aagtttggct ggccgcttag gaactgctgg 60

gcaggttcta cgggcgggc 79

<210> 37239
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H5

<400> 37239

cccacgcgtc cggaagactg tagatactgt gttcgataaa gatagtacta acctgcatga 60

agatgacaag agaaacactg agagttcaga agcggaagga caagtcaaca gtggagatag 120

taatacagaa gctaataata ataagaatga agatgaaacc accagtcttg tagaaggacg 180

caagcatgat actgaatcca actctgctgc tgagagtaaa agtgaagtca attcaactgg 240

agatgaattg tcccaaaaca atcatgcaca agaggaaaac actagggagg caagtggaat 300

gtctcatgat gaaatagcgc atggtgac 328

<210> 37240
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-H6

<400> 37240

gtagagatga tgctcaaagg caatttattt tagaacttgg tgtaccagaa gaatggatgc 60

atgaagctct ggctctttat cacgaatact atggagataa acagggcgca ctggagaatt 120

tgattcagtg tggcaactgg aagaaggctc atactatttt cgtgacttct gttgctcatt 180

ctatgtttct gtcatctaac catcaggagg tctggaggat cacaagtgcc ttggagaacc 240

acaagtatga aattgctgac tgggaccttg gtgccggaat atacatagac ttctacattc 300

tgaagaactc aatgcaagaa agaaatgcca tggatgattc ggattcactc gaggagatga 360

gtgaatcatg cagaagtttc tttggccgac taaacgaatc gntgttagtc tggggaagca 420

aattacctgt tgagtcaagg gcatgcta 448

<210> 37241
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-H7

<400> 37241

cacttgttcc ctcgcgtcca tggccttgtt ccagcctact cttctcactc ctcccccgct 60

ctgctgctgc tcgcatggcc tcctctaccc agggttcctg aaactgcctc ccaaattctc 120

aaatggggcc tgctgttcca cggcgagggc gtcggaccgg agcgagctgg cgggtaaaag 180

cgggggcttg gcttggagag cggcggggag aaaggggcgg ctgcttggcg tcaccggagc 240

tgggcgaagc cccttctttg gcggccgcng gaggcgtatg gacaagggca ctagccgggt 300

cg 302

<210> 37242
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H8

<400> 37242

atcagaatga taatttgcac aagtcatctt tgctacatac tgggctgatt gatactgatc 60

caagtgtgaa cttgcacgac aatggtggcc tctctgtgtc ttcgtctcaa aatccagttg 120

tggactgtgt ttctaggaga gaggatcccc ttcgtgattg gggcaatatc gcctgcagtg 180

aaggaataat tggatgtgac cataccacca ccgataatga acacataaag ctagcacaca 240

ggctgcacga taatgttcaa atgaatgtac ctgtcatagt tgaagacgtg actgataatg 300

tgccttcagg cattccatca tcgag 325

<210> 37243
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A1

<400> 37243

cggcagaaga ctggctgctc gtcgtcgccg gcggcaacaa cgccggctgc agagctgatc 60

gtgccgtcag cacagcagat ctagcaattc caggtggtac aaaagggttt ttcatcaaca 120

agtggtcacc aaaagaagaa ctgaaacatc aagatggtgt ttgcttctac gttttaccat 180

tgaggatatg atggtaaact gaagtcatgt attatgctat gcattcagaa gatgatgcta 240

aactgaataa gcacattaat ctgatttttc tatgcattga gactatgttt gtattattgt 300

tatgcaatgc aatctatgca ct 322

<210> 37244
<211> 470
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-A10

<400> 37244

aggttttgaa ttaccgtttc gacaccacgc ctccggatcc acttctgccc atacttcctc 60

catttatatc catcgaagtg cggtgcttgt gtcacaattg aacctgtgtg ttgtgcattc 120

ttcctaagag aaggggtaa ctattttaag cccaagtaaa tgacacacaa gtaaacatat 180

atatataaac ttcttttgct acacaccttc tcttatttcc aatttcttta gcttcctccc 240

ncagcatgtg gctctccacg ccgctattct taccacgttt tcttctatat ttgataagat 300

tggcctgctt cttactgtta tcaccaggtt cgagaaagga gaggacctta cctgaggaac 360

tggatatatc ttgaaagatt tgctgaacaa gcttctcctg cctactacag ggatcaagtg 420

ttggtacgat aaggtcatat aggcccttca tgagagccct ttggtggttc 470

<210> 37245
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A11

<400> 37245

ccgccgattg gcacgatttg cgcagcacat tctagttatt ccaaatatga tgagcagcaa 60

tgaagacaac ccggatataa aggatctgca gaatgcagaa actttgcgca agttcgtcga 120

tcctcggagc atcgagacac agacaaaccc gatcgaccgg tctatcgctc tgctactttt 180

ccaccagtca tcggaccatg cggctgtggc tgtcgacgat gcctcatcac ttaaaccccc 240

tgctggtagc aaacaacacc agggccctgc tgctaaccaa aaccaaggcc tgatgcctga 300

ttcatcggtg tattcccctg gagatggggc ccccaaggat gtacagtccc tggacaagtt 360

ctgaatttat gtccctgctc tccatgacct agttaagggc atgttcggtt ccccgggaat 420

gggcatgttc ggttcccccg gggaa 445

<210> 37246
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A12

<400> 37246

aattcctact gggaaccatc ctccgcggac gcgtgggctg acgcgtgggc cgggtttgag 60

gttgtttggg ataaggatct tgctgaagat tctcccttgc cttggtactt gcccttggat 120

ccaagccgat tctccctgag tagcttccgt ttgacctctg tgggacgcat gattacccgc 180

acaatggtca aggccctgga gtacgttggt cttgctccgc agggcagtga gagggtctct 240

aatttcctgg agaaggctgc agaagggctg gtagagggcg gaaagaagga gatcttcacg 300

ccaatgtact tctttcttgt tcggaagcct cttctggaat gagctcttgg atcacctttt 360

cagagagaga aggcaagtgg tcatttcgaa gaagccgagg agagggaacc tggaatcaag 420

aaaaccttca gctctcctgt gtaggaggaa ag 452

<210> 37247
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A2

<400> 37247

cggacgcgtg ggcggacgcg tgggctttaa ggagaaacct atgtttacgt ttgcaaacaa 60

ggcagggctg gacatgttag aaacatctct tgttgccctg caagacctga cgctagacaa 120

gatcttcgac gagtcaagaa ggaaagcact attctcagac atctcgaaac taatggaaca 180

gggctacgcg tacctgccgt caggcgtgtg catgtcagga atgggccgcc atgtttcttt 240

cgaccaagct gtagcgtgga aggtgctcgg cgaggatagc aacatccact gcctggcgtt 300

ctgcttcgtc aactggtcct tcgtgtgact gaagtccaac ccgtcgggtg gttatggcga 360

gctgacccca ttttttttg tatggaaaat ca 392

<210> 37248

<211> 120
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A3

<400> 37248

aagaaaaata ctggctgata atagacattt tcttaaacaa ctcctgactg cagagctgcg 60

cgtgccgtct gcacatctga tctagctatt tcagttggta caaaaagggg gcgctcgtca 120

<210> 37249
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-A4

<400> 37249

tcggccaagg gcaaccttgt cacctacaag gttcctacca tggtcgcctg cacgctcaac 60

gcggtggcca ttctcctcaa ggaggggctc caatgggact ggttcatcaa tctcagtgcg 120

tcagattatc cgctcatgac acaagatgac atacttcatg tcttctcttc tttgccaaga 180

aatcttaatt atatagagca ctttcngtta tctggatgga aaggtaatat aagggcaaaa 240

ccaattgttc tggacccagg gctctatctg tccaagaaat ttgatcttac tatgactact 300

gagcggagag aattgccaac atctttcaaa ttatatactg ggtctgcttg gataatgctt 360

a 361

<210> 37250
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A5

<400> 37250

cggacatcgt gagaaactca tacaaaacag atcttgcaag gcaaatttta ctcagtttca 60

ttgtgaagtc ggtgcacgac agtttaggtc cctcccgggc tgaaccagag aggaagccaa 120

gtggatcaga tgaagctagt aatgaacaga ccagcgtctt aggcaagaac gcttctggtc 180

gcaaagatcc ggataaacaa gagaaagcgg cggaggctac taagggcctg aaggatacag 240

agggattcac tgtcgtttca aaacgccgaa ggcgttccca gccgttcatg aaccccataa 300

atggcctata ttctcagccg tctatttgca cctctgtcag ttaaggtcat tgcgttttcg 360

aagacctgca atattttgcg agat 384

<210> 37251
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A6

<400> 37251

ggctttggag gaggaatcgg ccacgacatt ggtggaagct atggaaaggg aggtgggctt 60

ggcagacgca tcggccatgg catgggccgt ggctaccgca aacgtggagg gatcgaccat 120

ggcatcagcg gtggctatgg aaaaagccgc agccttggtg gtggatatgg caaaggtggc 180

ggactccgag gcgacattag ccatggcatg ggtggacgcc atggcaaagg tggtcgaatt 240

gagcatgaca cgggtggaag attcggcaga ggccgcagtc gtc 283

<210> 37252
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A7

<400> 37252

gactttggag gaggaatcgg ccacgtacat tggtggaggc tatggaaagg gaggtgggcg 60

tggcagacgc atcggccatg gcatgggccg tggctaccgc aaacgtggag ggattgacca 120

tggcatcagc ggtggctatg gaaaacgcag aggccttggt ggtggatatg gcaaaggtgg 180

cggactccga ggcgacattg gccatggcat gggtggacgc catggcaaaa gtggtcgaat 240

tgggcatgac atgggtggaa gattcggcag aggccgcagt cgtc 284

<210> 37253
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H12

<400> 37253

tacgcgtacg gaagggcgta gtcgaggagg tggtttggtg tatggcgggt tgtgaggagc 60

tgctgacggt gctcttcaga ctccaccgat ggcgatcaag aacatgacgg cggcggcgac 120

gacgcggtcg ctggacgcgg acatgacggt ggacgagttc aaggagtggc tgcggcggtt 180

cgacacggac catgactggc gcatcattcg ccacgagctg cagagcgccc 230

<210> 37254
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A8

<400> 37254

cccacgcgtc cgcggacgcg tgggctgcat atcaggtggt tcctctatag gatacaccat 60

gtgtggagtc tgcaacaagg ttctagtctc aacttgcaca tatggtggct cttgcgagtt 120

gtgacatgat cgtctgacat caaagcgtga aagacgttaa taaatctgtt caggagaagc 180

agtcatctag cgtggcaagc ttggaattga caatgagtga tgtggacact ggtagatcta 240

gtagcaaggt caaaggatga tttcttttac caagtatgct tgcattcgtg aagcaaatca 300

atgatacatt atttagagcg tgattg 326

<210> 37255
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A9

<400> 37255

cgcgtccgta tggttgttac ctttggtcct agtggcctta ctactgaggt gaagtctgtt 60

gaaatgcacc atgaggctct ccaggaggcc cttcctggtg acaatgttgg cttcaatgtt 120

aagaatgttg ctgtgaagga tctgaagcgt gggtatgtgg cctccaactc caaggatgac 180

cctgccaagg aggctgctag cttcacgtcc caggtcatca tcatgaacca ccctgggcag 240

attggcaacg gctatgcccc agtgctggac tgccacacct cgcacattgc tgtcaagttt 300

gcggagctca ttaccaagat tgataggcgg tctggcaaag agcttgagaa ggagcccaaa 360

ttcctcaaga atggtgatgc tggtatggtg aagatggttc ccactaagcc catggtagtg 420

gagacctttt ctga 434

<210> 37256
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F5

<400> 37256

gtttttagta aaaaggggaa aaggttcttt ccaacagttt tgtagatgag ctccttaaag 60

attaaaaagt tgtcaaatat cctctccaac ttgtaagttt gtgcagtcaa gaggaactat 120

gtatcggctc cccatccagc gtttttctca ggagaccgga ataaattgga tgcatgagta 180

aatttagaaa ataaaggctt ccagatgagg aagcggtaag agacaaagaa actattaaaa 240

atgattggtt ggttagaaat agtttgaggt ttcccaatgc ataattgttt agtaggctat 300

tatagcagac tagagaacaa taaactttaa ggttgctatt tttttttttgt taacttgcta 360

gatctgt 367

<210> 37257
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F6

<400> 37257

cgccgtcctc atcgagaccc tcaccgcgct cggcgccgag gtccgctggt gctcctgcaa 60

catcttctcc acgcaggacc acgccgccgc cgccatcgcg cgcgactcgg ccgccgtgtt 120

cgcctggaag ggggagaccc ttgaggagta ctggtggtgc accgagcgct gcctcgactg 180

gggcgaggcg ggcggccccg acctcatcgt cgacgacggc ggcgacgcca cgctgctcat 240

ccacgagggt gtcaaggccg aggaggacta cgagaagacc ggcaagatcc ccgatccgga 300

gtccaccgac aacgctgagt tcaagatcgt gctcaccatc atccgcgacg ggc 353

<210> 37258
<211> 295

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F7

<400> 37258

ggctggcgtc atacggtccc acggttcttg tggagccgcg gaccgatggt catcgtgggg 60

catcatctgc aggcaggacc acgccacggc cagcatcgcg cgcgactcag gacgcactat 120

gagactggaa ggcggagacc cgtgaggagc actggaggtg caccgagcgg atcctagact 180

ggagcgagac gagcgggcgc gcactacatg gacgaagcgg gagacaagcc acgctgctca 240

ccacaaggga ggcaaggact aggacgacta cgagaagacc gtcaagatgc ccgag 295

<210> 37259
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-F8

<400> 37259

cggacgcgtg gggtttggtg gcaccaattt gatgttgcac caaagcctct ggaagccgtc 60

attcatcaaa tgatggagct tgcggctttg aaaaagttga tgcctgctcg acccaatccg 120

gttaagctga aggaaacttt atgtgaagct aaactgagct tatctaatag cccagactct 180

gtgttgaatc aatcaagctt gttaataagc agctcaagtc ctgatattgg cgagcccagt 240

gacaaagtgc aggtggattc ctgccaatac ttgataagca gtcacatggg tgattgtagg 300

gtctcaggtc ctgacagcag ttcgttgaat acttgtgcta atagaaatgt ctcttgtaaa 360

gcacatgatg aagagagctt ggatcangcc ttaataatca aacatgacag tgggatgatg 420

ccttctagta atcagacatc at 442

<210> 37260
<211> 125
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-G1

<400> 37260

cggacgcgtg ggcctggatt atgcgaggtc aatgttggcc aatgatgcca aggctgccaa 60

gggaggaggc gatagacaat tcaatggtct tgtggatgtc taccgcaaga cactcaaatc 120

tgatg 125

<210> 37261
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-G10

<400> 37261

cggacgcgtg ggtgaaagga aggggtaatg ttgtggaagt aagtgaaaag agtttggtta 60

aagctatagc tgcagctagc agtgagaaca cacagccggt gtcttctgca tcagcagaga 120

aaagtaaggc aattcctcgc ggtgattcgg ttggtgatac tttggcaagg caactgggag 180

tccagattgc atcttctgat gaacaggcaa aagctgccga ggacttcaag aagactttat 240

atggtgttgt tgatgatgga agtagtgatg aagacgagtc aacctcaaag actaaaaaga 300

tacatataag gatacgtgat aaaccggctg cacct 335

<210> 37262
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-G12

<400> 37262

cggtaccgca acgagctgga catgaacgtt cgcctgggcg ggcatgaagg acggaggggg 60

tagctataat tatagacgat gaatatagac acacatcatg ctgagatccg caccagtata 120

gaaaactaag ctgcacgcct gtctgtaatt cggatgtaga aacatctaca aggcatccat 180

gaatacagat tgcaaaatct gaccatcatt tcaaaatatg cagagaactc tacaacgact 240

acatctgcac 250

<210> 37263
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-G2

<400> 37263

cactgggttc ccgaggacag gatcctcatt acctacctgt ggtctgctga gctctccaag 60

ctcgctgcca acgcgttcct ggcacagagg atctcctctg tgaacgccat ctccgccctc 120

tgcgaggcca ccggcgcgaa tgtgactgag gtggcttacg ccgtgggcaa ggacacgagg 180

attggcccca agttcctgaa cgccagtgtt gggttcggtg ggtcttgctt ccagaaggac 240

atcctgaacc tggtgtacat ctgcgagtgc aatggcctgc ccgaggtggc caactactgg 300

aagcaggtga tcaagatcaa cgactaccag aagagccggt tcgtgaaccg cgtcgtgtcg 360

tccatgttca acaccgttgc cggcaaga 388

<210> 37264
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-G4

<400> 37264

cccacgcgtc cgcggacgcg tgggcggatg cgtttgaaag acatgacatg gcgacctgat 60

ctatgtagtg atagcatggc ggctagtgga atagaaactg gtacaaaatt gtacatttca 120

aacttggact atggggtctc taatgaggat ataaaggagc tgttttcgga agttggtcat 180

ttgaaacgct ttgctgttca ctacgatggt tatggccgcc caaatggcac tgcagaggtg 240

gtgtttacac ggaggagcga tgcaattgct gcactgaagc gttataataa tgttctactt 300

gatggaaaag ctatgaagat agaagtcatc ggaaatgact tangattgcc tatgacacct 360

cgtataaatg gttgtggggc ttctaatggc agagctacca gaacagttgg tatgacgcct 420

gagtttagtc aacgtggc 438

<210> 37265
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-G5

<400> 37265

cccacgcgtc cggcggtgtc gtcgtggttc tcgccgcgcg catgggcggg atctgcgctc 60

tgcagcgcgc gtggtgacct accacaggca cactgaccgg ctgccggctg ggatactgag 120

agactgcatg tctttttccg tgccgcgcgc tggaattcgc acggccctac cacgagcacg 180

tgccgtacgg ggcgtcagcg cgtgctggat cgaagaggga tgcgagctga gagagcgcgc 240

ctgatgagag gctgagacga gacctgatgc ggcccacacc tgcacgtgtc cgtataatct 300

gttcagagtg ttcgtaatcg atcttttcaa atttttctc 339

<210> 37266
<211> 372
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-G6

<400> 37266

cccacgcgtc cggaataatc tcttcttcac ctcactaaca ccagctagca actctttctc 60

tcctgcaata atggccgctc gctcctcctc ctcccagccg cagctggtcg cggcggcggc 120

ggtcctggca gcggcgctgc tgctgctggc ggcgggggcc gggacggcgt cggcggcggt 180

gagctgcggc gaggtgacgt cgtcggtggc gccgtgcctc gggtacgcga tgggcagcgc 240

ggcgtcgccc tccgcggcgt gctgcagcgg ggtgcgctcg ctcaacagcc gcgcgtcgtc 300

ggcggcggac cggcaggcca cctgcaactg cctcaagagc atgacgggcc ggctcggcgg 360

cngcgtcagc at 372

<210> 37267
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-G7

<400> 37267

gccaaacaga tggcgtacca actatgcatt ggacgatgga aagggtatcg agtcctctgc 60

tgcgtcaact gcgccgatgc gcactatgag ctacatggtg gtgctagttg acgtctgtag 120

atataaggta ctggccaatt cgtcatgcga cggaatcacc aagctgcgat gctacaacca 180

cagcagcaat cgcttggact cctgatggta caagacagag ctgctctacg acgtcgacgc 240

caacgtgatc aaggaggagt tcatgca 267

<210> 37268
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-G8

<400> 37268

cctcaaaaga catactcaag aagctagata ctatggatga agaaaatatc attggagcag 60

gaggcttcgg aactgtttat aaacttgcaa tggatgatgg caatgtcttt gctttgaaaa 120

gaatagtgaa aacaaatgaa gggctagatc ggttctttga tagagaactt gagatattgg 180

gaagtgttaa acatcgttac ttggtcaatc ttcgtggtta ttgcaactct ccttcatcaa 240

aacttttgat atatgattat cttcaaggtg gaagcctgga tgaagtgctg catgaaaagt 300

ctgaacagtt ggattgggat gcacgtatta acatcatact tggagctgca aaaggcttgt 360

cttacttgca tcacgattgt tcgcctcgaa taatacatcg tgatatcaag tcgagcaaca 420

<210> 37269
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-G9

<400> 37269

cggacgcgtg ggcaaatttc ttctttaact tgcttctcag ctcaacctgc gcgttaatca 60

gtttgagatt gtaaattttt atgttgttgg agcttctggg ctaaatatca caatggatat 120

agctccctat actggaatta gctttgctgc tgatcaagtc aaggcaatga attattcact 180

tactctgcat acagttcgga ttgatcctgt gttggtcggg gactataatc ttcttaattt 240

aacttggttc aggtcattgg ctccagctcc agctccagca ttcacaatgg cacctagggc 300

ctctccatct acagcatcta cctttccaag ac 332

<210> 37270
<211> 368
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H1

<400> 37270

cgaggacagt ggtgatcacg gggatgcttt cgatcggctg tgagccgcag cagctggccc 60

agttcgcagg cggcccggcc ggcgactacg accctaccac cggctgcatc acgcggttca 120

accagctcgc cgagcaccac aaccacatgc tgaggatgat gctgagggag ctgcggacca 180

agtaccgcag gcgcaggccc ctcaccctcc actacgccga catctaccgc cccgtgatcg 240

aggccgtcgc gtcccccgcc tcgtacggct tcggcgacac gccgctggca gcgtgctgcg 300

ggggccgtgg cggccccaac aactttcact tcatcgcctt ctgcggcacg ccggcgtcga 360

ccacgtgc 368

<210> 37271
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H11

<400> 37271

cccacgcgtt cggtcagcca gatcttagtt tcagcaggtg caccaccctg caatggccgc 60

tggccgtgtg cctagtggga tgtacgggca cgagcttgat gcgaagttga gatacagatg 120

atggatgcct ggatgcttca ctccgtacag aggacctgga ggtgtggttt gttgtatgtg 180

cgtggtcact ctttgcccag gctgctgtgt attatttctg ctaacatggc ttatcatcag 240

ccgacggtcg cgactgattg gaggcctgcc tcacttgtag ggttgtagca tgtacatctg 300

aacgggtgat ggaacggagt gagtctaaga tct 333

<210> 37272
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-F4

<400> 37272

gagagatggg atgtgctgct tccaggtttt aagatgagga ggctgtcaag atgtgccggg 60

acagaaggga cttgatcaag caggcactgg agcagcgcaa ccgatttgca tcttcccaca 120

ttgcttacat tgagtccctg aagcgtgttt cggtggctct ccaacggttt gttgccggag 180

atgatcacca tgagctaatc ttcgatacat tcatctcccc tatcaagcaa cagaagccag 240

agatgcttgg tctgccttat ggttcatatg agaagagaac tattcatgtt tcaagatacc 300

tgaggtcagg gcctaaccca tcagtgtcca ttgaggagca cccacgtncg gtggaaacag 360

tccgtgtcga gtcaaattac cctatggaca acgacagtgg catggtggat aga 413

<210> 37273
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D9

<400> 37273

gccttcatca ggaatcacag cagccgcctt aacaacagca accacaggtg cagcaggcgc 60

aaccacaaaa acaagcagca tctgttatgc gcagagcatc atctattgct gctcggcaag 120

cagcaatggc acagcaatct caggagacta aacccgtttc atcttcgccc aagatcaagc 180

gtcaaacatc agtgagatct ggttcagtgg catccataaa gcctccggta gctgcatcca 240

caccaaaacc tggcggtagc ccaaataaag gcgaggtcaa acctgctgcc ggcccagttc 300

aaactccaac cacaggtgcc gattcatcaa atacccgg 338

<210> 37274
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E1

<400> 37274

gcattggagg gtactaatgg aagccatttt atgtacaggg tgatctctgt tgagtatgca 60

cttcgtgatg acgatgaaaa aggtgaaaga gggaacgggt acagcccaga caggagaggt 120

cgtgaaagat ccccaggtag aaggcgttct cctagtccct acggtagagg acgggagaga 180

ggtagcccag attacgggag aagcaaggag agggggagcc cagactatgg caggggagga 240

cgcagccctg ataatggcag gggagtaagc ccagctggtg gtggcagagg cgatcatgcc 300

aggggtggag ggcgcagtcc tgactatgat 330

<210> 37275
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E10

<400> 37275

catcgacgag gacatcagcg ccatggtggg tatcctgaag cggggcttgg gtgttggatg 60

catccactca tggctgtcga gcaatcagat gcagcgcgcg acagctacag gcggcttgcc 120

aggggctcac atggttgcaa caggccaatt ccgcacgcca gcgatgaacg caatggtcca 180

ggaggcccat aggcatttgg ccagggaagc atctgcccat gatgcgggga catcaattgt 240

ttgcaagcgc gccgtcgagc ttctagatgg gataaacaag cgattcgatc tctggtgcaa 300

gctggaccag gaattgccgc gcacgaacca acc 333

<210> 37276
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E11

<400> 37276

gatcgacgac gacaactacg cgctttcttt tccgctggag actcgctggc tggggaagag 60

cgtcgactaa tggttgacag gcaatcagat gcagcgcgcg acagctacag gcggctagcc 120

aggggctcac atcgatgcaa caggccacta acgcacgcca gcgatgaacg caacgctgca 180

tgaggcccat aagcatctgg acagcgaagc atctgcccat gatgcgggga catcaactgt 240

atgcaagcgc tccggccagc tgctagatgg gataaactag cgagacgagc tatgctgcac 300

actacaccac taatagccgt gcacgaacc 329

<210> 37277
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E12

<400> 37277

aaaagacaga aacaaatcca ctattggttt tacgtcaagc aatacgtaga gtaactccca 60

atataggagt aaaaacaaga cgtaataaaa aaggatcgac gcggaaagtt ccgattgaaa 120

taggatctaa acaaggaaga gcacttgcca ttcgttggtt attagaagca tcccaaaagc 180

gtccgggtcg aaatatggct ttcaaattaa gttccgaatt agtagatgct gccaaaggga 240

gtgggggtgc catacgcaaa aaggaagcga ctcatagaat ggcagaggca aatagagctc 300

ttgcacattt tcgttaatcc atgaacagaa tctagg 336

<210> 37278
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-E2

<400> 37278

cccacgcgtc cgggttcacc atgtaccatt ggctggtcag ggacattgtt gggccattag 60

cacaggaata ctgagatata tctagtgttt gtagttttgg ggtgaactca gagaagttga 120

aggtaacgac ttggcttgcg aatatcagct gatctgcact cgggaaatat cagagagctt 180

gtgcagaaaa ggtaacagtt atgggcttat ggcagatgca gtagcatgag atgtcttcat 240

aattgttgtg tacatcaggt tcagtggtac ccccatcgtc aagctggata cgagtttgga 300

aaaggtaact gtaaatcgag aaaattgtaa attgattagt gagctcactg cagcaatagt 360

tgttttccta cgtntcatct gggtattggt atgaaccacc ggaaggattt ccggt 415

<210> 37279
<211> 357
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-E3

<400> 37279

cccacgcgtc cgccaccttg gccgctgttt tccttaccgc tcgtgctctc tctctctcgg 60

cgccgactcg gctaccgccg ccgccctacg gaagcttccc aggtcttcgt caggcttttc 120

tccggcaacg agcaccctgc acagatcgtg aacctncaca cctcaacgat agatggcggg 180

gttcagaagc cttgcaccca agaccaggaa cctggtggtg gccgggggac tgtctgcctt 240

cgtgctcggg gtctactact acaccatgag agcggtggga ggcacggacg agctacaggt 300

ggcgatcgac aagtttgagg agacgaaaag caggatgctg gtagaaactt cagcttc 357

<210> 37280
<211> 309
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-E4

<400> 37280

cccacgcgtc cgcccacgcg tccggctagt tagcacctag cagtcgtaca cacgggctag 60

cagtcgatca caaaccaatc gcggagaggc aatcacgtac gtatacacac gggcacgtaa 120

ctagctatct agctagcagt cgtagagtga cgatgagggg tctctctgtt gcggtcgctc 180

tggtcgtggt ggtggccgcg gcctgcctcg ccgcgccgcg gggcgcggac ggggcggncg 240

agtgcggggc gacgcctggg gacacggtgg cgctgaggct ggcgccgtgc gcgtcggcgg 300

cgggggacc 309

<210> 37281
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-E5

<400> 37281

cggacgcgtg ggggcctcca acgtgttcat caacaagcac gagcacggct gcgtctcgga 60

ccacggcctg gcgtcgctga tgaacccggt cacggcgagg tcccgttctc ttgggtactg 120

cgcgccggag gtcgctgaca cgaggaaggc gtcccagtcc tcggacgtct acagcttcgg 180

cgtcttcgtg ctggagctcc tcacggggaa gtcgcccgtc cagataaccg gcggcggtgg 240

cggcgacgtg gtccacctgg tgagatgggt gcagtcggtt gtgcgggagg agtggaccgc 300

cgaggtgttc gacggcgagc ttctgcggta ccccaacatc gangaggaga tggtagagat 360

gct 363

<210> 37282
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E6

<400> 37282

acgcgtcgcg tgggggcttc caacgtttcg ttcaacacgc acgagcacag ctgcttgtcg 60

gaccacggac tggcgtcgct gataaacccg gtcacggcga ggcacacggc tcttggatac 120

tgcgcgccgg aggtcgctga cacgaggaag gcaggcgagt ccttggacgt gtacagcttg 180

tgcgtgttcg tgctggagct cgtcacggcg aactcgcccg tgcagataac cggcggcggt 240

ggcggcgacg tggtccacct ggtgagatgg gtgcagtcgg ttgtgcggga ggagtggacc 300

gccgaagtgt tcgacggcga gcttttgcgg taccccaaca tcgaagagga aatggtagag 360

atgctgcaga tcgccatggc gtgcgtgttc aggacccccc gagc 404

<210> 37283
<211> 319
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-E7

<400> 37283

cggacgcgtg ggtttttctt tttcttccat gttctgcatt tcctgtctac tactgatgag 60

tgtctgaacg agcccgagaa atggaacatt cccgacgacg aggtggacga catggatgat 120

tgtacactgt tctctgaatc cttttccatg tgattgtagc ctcatttttt tcccatttcc 180

ttttagtgtg tgctatgttg gcatgccgtt cttggcatgg gatggaggca ttgagctatg 240

ttttctggtt tttttgtagt cttagatgac tggtatttaa tcatgcgata tatatatgac 300

ggngattttg ggatgtaaa 319

<210> 37284
<211> 331
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E9

<400> 37284

gctcgtcgcc acctactagt tgcttccttt tccgttggag actcgctgac tggtgaagat 60

ggttgtccag gagttcacag ttgatctcaa caagcccctt gttttccagg ttggccatct 120

tgaggaacgg taccaggaat gggttcacca accgatcgtc agcaaggagg gtccacgctt 180

tttcggaaat gatgtcctgg agttcttgac tcgcacgaag tggtgggctg tgccaactat 240

atggctgcct gttgtctgct gcctgctcgt gaaatctatt ctgatgggtc atactgttca 300

ggacgtagct atgatggctc tgtttgggat a 331

<210> 37285
<211> 327
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-F1

<400> 37285

cggacgcgtg ggcggacgcg tggggttttg gaaaggaagc accggatcgg agcaggcgat 60

acggcgccga cgacaatggc agcaacaagg gtttccccgg ttcttctctt gctgctcacc 120

gtccagctca gcttgctctt ccgcctcccc gactcccccc ccaccctcgc cctcgccctc 180

gccgcggaac cagagcaaca gaacgccaag cagcatcgcc agcccgcgct gctggtgcag 240

tcgacgtgca actccaccag cttctacgac ctctgcatcg acgcgctcgc cgncgacccc 300

gncagctcca ccgncgacgt cccgggc 327

<210> 37286
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F11

<400> 37286

aaaagaacat ttgttgtgag gaaaggaggt cttcctgatg ctgttgtttg gaacccctgg 60

gacaaaaaag caaaggctat gtcagatttt ggggatgatg aatataaacg aatggtatgc 120

gtggaggcgg ctgctattga aaagactgtc actctgaagc ctggtgaaga gtggactgga 180

aagttggaac tttctgctgt gccatctagc tattacagtg gtcagctaga ccctgaccgt 240

gtgattcagg attccactgt cccggaggac tccatcagct agtccttatt ctatttttgc 300

aggtagagca ttgtatcatt atgcataaga gatg 334

<210> 37287
<211> 119
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F12

<400> 37287

ctgatcatgt aatttatatt ggatatatta ggcttttgag gagactggaa gtagatggat 60

cacgatcacc atgtaatttg taaaatgggg ctactgttac tgtaataaag gcacatgtc 119

<210> 37288
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F2

<400> 37288

cccacgcgtc cgcggacgcg tgggagatta tgatgatacg tctgtccata gaattgatca 60

tctccttcaa gagatggatg cagcaaaatt atgtagaatg gattcatgtg atgggcaata 120

taatttgtgt ggcacggaat caacatctgg atcacttgca caaaacattc aatccagaaa 180

aaatgggggt gagcatggtt ctcagcaact gcaaaccctg gatcgtgttg actctttaga 240

tggcttccag aagcatgaca gtgaacattc tcttttaaaa acttctcaag tatcgccaaa 300

gatacagcat gccgctgaaa tcttatgtga tatgagaaga agcattgaat cgttgagtgg 360

ccaaggatac agcaatgggg tgattaaatg gccaaaatca ccatccgaaa aggtgatgaa 420

agc 423

<210> 37289
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D8

<400> 37289

ctcatgctct cgttccgcac gcgttctatt ttccgatcgc ttcggtttgc gttgccacag 60

gcttacctct gtgccccagt cgattcgcgt gagcctttct tggaaggaac gatcgaacac 120

acctgcatga tgatcaagcg cgcccgcgtg cagagcggcc tgatcgagga ctat 174

<210> 37290
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-C11

<400> 37290

ggaggatcgt ggccagtgct tctgtggctg ctgactgcag cctgcatcaa aactggacgg 60

ccgcagattg caagaagagc aatcgaccta gcagagagga ggctgttgaa ggatggctgg 120

ccggagtact atgatgggaa gcttggtcgg tatgttggca agcaggcgag gaaattccag 180

acttggtcca tcacggggta tttggtcgcc aagatgctgt tggaagatcc ttcacatctt 240

ggcatgatcg ccctggaaga ggacaaggcg atgttgaagc ctgttttgaa gcggtccgcg 300

tcatggacaa attgagatgg tgacgaaaat tt 332

<210> 37291
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-C12

<400> 37291

ccatagggct atttataagc cgcatggctt cagggaataa atcaaacaag atcattatca 60

aaccaatctc tctctccctt gcaatgaccc tctcaagcgc ctagggctgc taccctagaa 120

ccaagcctat agcagagggg tataacctcg ccggagaaga caactatccc catggaccga 180

aggtccatga cacctggtat cagctccagg ttatcctcac caccaccagc cgcccatccc 240

tcaccaccac cagccgccgc gccatctgcc gccgcaacgc cctcccaccc gccctctcca 300

actccagatg cattcactcg gctcgaagag aagtg 335

<210> 37292
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-C2

<400> 37292

cccacgcgtc cgcccacgcg tccggctgtc ccgtctcgtc ctcttcgcca gcgaaaaccc 60

tagtctaggg gacgggagcg caatccacgc acggcaacat ggacgccatc cgcaagcagc 120

tcgaccagct catgggggcc aaccgcaacg gcgatgtacg ggaggtcagc cgcaagtact 180

atgatcgcga cgtctgccgc ctctacctcg ccggcctctg cccccacgac ctcttccagc 240

ttaccaagat ggacatgggc ccgtgcccga agctgcactc gctgcaactg cgcaaagagt 300

atccttccaa gtgaacagnt actntatctt gtgtatntgn ttgtgggggt tagtttttga 360

gtcaggctta atgtgtaaaa gccaattcaa cgattcataa cattacattt gatttttttg 420

tctgcttaa 429

<210> 37293
<211> 111
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-C3

<400> 37293

attacgcgta cgctgtttcg aacgggagta ccatttccta gtagaagata gagtactcgg 60

tcggctacgg cacgatatgg ctggacacat accagatcat cgacgccaac c 111

<210> 37294
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-C4

<400> 37294

cccacgcgtc cgcccacgcg tccgcttact tcctgcggaa ctactacaac ctgctgcaac 60

aaacccccga tgtcgtccac cagttctaca gcgaagccag caccatggtc cgcgtcgacg 120

acctcaccgg cacgaccgcg gctgccaaca acatgatgga catacactca ctcatcatgt 180

ctttgaactt cacccaaatt gagatcaaga ctgccaattt tgtgaactca tggggcgatg 240

gggtgctagt tatggtctct ggtctagtgc agaccaagga gtacagccac caaaggaaat 300

ttatccagat gttcttcctt gcccctcaag agaagggtta ctttgtcctc aacgattact 360

ttcacttcgt tgaccaagaa catgtgcagc ctgcgccagt gattgctcag gaagactacg 420

agaagcattt ggcacccaac acag 444

<210> 37295
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-C5

<400> 37295

gaataatctc ttcttcacct cactaacact agctagcaac tctttctctc ctgcaataat 60

ggccgctcgc tcctcctcct cccagccgca gctggtcgcg gcggcggcgg tcctggcagc 120

ggcgctgctg ctgctggcgg cgggggccgg gacggcgtcg gcggcggtga gctgcggcga 180

ggtgacgtcg tcggtggcgc cgtgcctcgg gtacgcgatg ggcagcgcgg cgtcgccctc 240

cgcggcgtgc tgcagcgggg tgc 263

<210> 37296
<211> 309
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-C6

<400> 37296

cggacgcgtg ggtagccata gtaatgaatt agtgccagga ggagcagctt atgggtcact 60

tgggtgttgt gctgtatgag tacttacgag aggagtatcc tgaggtgctt ggttcaattc 120

ttggagcctt gaaggctatc ctcaatgtca ttggtatgac taaaatgact gcaccaatca 180

aggatcttct tcctcgtctg accgccattc ttaagaacag gcatgagaag gtncaagaga 240

actgcattga tcttgttggt aggattgctg atcgtggagc acaatttgtg cccagcaggg 300

gaatggatg 309

<210> 37297
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-C7

<400> 37297

cggacgcgtg ggtggcgggg ctctacgata agccgtcgga gacgtacgcc aagaagcgtc 60

cgcagtaccc caaggagtgg ttctccatgc tggccggcct caccgcgggg caccagcgcg 120

cctgggacgc cgggtgcggc accggccagg ccgccatcgg aatggcggag cactacgaga 180

gcgtggtggc gacggacgtg agcgagggcc agatccagca cgccatcgcg cacccgaagg 240

tgcggtacct ccagaccccg gagcacctgt cggaggacga ggtggtgtcc ctggtcggcg 300

gcgagggctc ccttgacctg gtcgtggtgg ccacctncat ccactggttc gacgtcccgc 360

tcttctacgc cgtg 374

<210> 37298
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-C8

<400> 37298

cccacgcgtc cgggcgaggg gcgactggtt gagcgcttcg tctagacagc ccagctgcgc 60

atttggatgc aaattacgtg tggaggatgg agtaaaatac tgagcaaggg agagggaaga 120

ggagacggtc ttttcttttc ttgagccgag gaggggatc aggtggagtg agcgaagggg 180

aggttctgcc gccggcaatg gagatgaatc ttccggcgga gagcccactc tgctcccggg 240

gccggcccgc cctagtcgtg cg 262

<210> 37299
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-C9

<400> 37299

acgcccacgc gttcgcactt tcagatcaac aatatcatta aggcaggcga gcacaacctc 60

gcggagcttg agctgttgta gatgcacaac atgacatact gcaccgaaat tgcccactac 120

ggggacaccc ggaaacgcaa ggagatcgtc gaacaggacc acacaactgg gcatagcagt 180

gaacaacaaa ctggccagga tctacaacct gtacggccac tgaaatagac attagaaagc 240

ggtgatacac gctggcagac aataatggag cgaaaaacct gcaacatgac ataccatgcc 300

<210> 37300
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D1

<400> 37300

cggacgcgtg ggcggacgcg tgggcggttg cgtgggcgga cgcgtgggcc gtgctccctc 60

cgctagttct cccatttcct tccccacctc ggtcgtcgcc tcccccagag agcaggagcc 120

gcctcgtccc tgccggtccc gaccccgacc cccatcccgt ccgcgtccaa cgccatgaat 180

cccgagtacg actacctctt caagctgctc ctcatcgggg actccggtgt tgggaagtct 240

tgcctgctgc tcaggtttgc ggatgattca tatctggaga gctatatcag tactattg 298

<210> 37301
<211> 335
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-D10

<400> 37301

cccacgcgtc cgcaaagatg ctgtcttatt agcagcaaaa aaggcaaaag aggctggaag 60

cacccgtttt tgcatgggag ctgcatggag agaaaccatt ggaaggaaaa caaacttcaa 120

ccagattctt gaatatgtca aggaaataag gtattcattg gaatcttttg tttatatggc 180

aaaagtatgg tatatgacgc ttgacctgca taaccatgca caattgtctg tcacctatga 240

tgtacaggtc attgacttaa cagccttaat tacatggaat atgaagatat atccagccag 300

caaaagtttt atgcatgatt cttatattnt atttc 335

<210> 37302
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D3

<400> 37302

cccacgcgtc cgagcagacg gggagagatt cagatccact cgtcacacat ccgcgttacc 60

ccctctccct tggtttcctc tcccaccacc aacccccatc ccggttatct ccgccgccgc 120

ccgctttggg aaggcgcgac gaaggcaggc gagaggctcc agccggacga ggaggaaaga 180

ggagcagcag ggccggagga gagatgttcc tgtgggactg gttctacggg gtgctggcct 240

ccctcggcct gtggcagaag gaggcgaaga tcctcttcct cggcctcgac aacgccggca 300

agaccacgct gctccacatg ctc 323

<210> 37303
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-D4

<400> 37303

cccacgcgtc cgctcataga gattatggat tgacgctgca gctcttgaat attatgaccc 60

aggcctcaat aaaaattaaa gaagtcgagt gggattacct actacagcaa aatatgcatc 120

aattcagcat tgatgccctc gagggcctta taaagtatct cagtactaat ggtactacca 180

atgctgatcc tgcagttgat ttagtaagag cactgcagtc ccaatgccgg gacgatacca 240

gtactcaaca gtttgaactc tcttttcatg gaagtggaaa caaatattca tgtagcagtc 300

tggcagaact agatcagctc acttgcaaga acttgtgcac tgatataatt ctggacgntc 360

ctggttctga tagagagat 379

<210> 37304
<211> 359
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D5

<400> 37304

cctctgcccc ctcctccatc ctttatcata ttcagacggt gaagcaccca gtcccagttc 60

aggttcaaac agacgctccg cacgagctgg agatggaggt ggaggtggcc aaatattcac 120

gggggcaggg tgctgacctg aaggcgctgg gggacaagaa gttgaaaggg cagctcagtg 180

taaaagagaa gctatatggc caatctgcaa aagctgctgc aaatgccgaa aagtggctta 240

tgcctaatga tggaggtatt ttagagcctg gtcatttgga gaaaacatat agattttcac 300

aagaggatat attgacagag gtggatcttt tgagttcaag aaaaccattt gatatgatc 359

<210> 37305
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D6

<400> 37305

gctgcatttg accccaacga tatgttgagt gaagtgagtg ctaaactttc caaagcctta 60

caagcacatg ttcaagatgc cattttggat agccgagagg atggactcat gagtgatagg 120

aaaaactatc ctttgagtat gcttgccatt catgctggtc ccagattgcg gcttcttctg 180

atcacattcc agcttctgga aatggaggta agaaatatct ctggaagttc tgaacttgat 240

ggaatcaggt ggatgcaagt atcaactacc ttgatagata gtttaattca accagtattt 300

atgaaatgga ttgaagaaga acatgccttg gaaaatggac aaatcaacga ataacttatg 360

aagacga 367

<210> 37306
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D7

<400> 37306

cccacgcgtc cgctccgctc ggccaccatt tttgaccgcc ttccctcccc tcgtctcctg 60

tgttcctaca taccccactc cacccgcagg agcggcgcgg cggcggcaaa ggcaaaggca 120

aaggcaagat gttcgggcgc gcgccgaaga agagcgacaa caccaagtac tatgagatcc 180

tcggggtgcc caagtcggcg tcccaggacg acctcaagaa ggcctaccgc aaggccgcta 240

tcaagaacca ccccgacaag ggcggtgacc ccgagaagtt caaggagctc gcacaagcct 300

atgaggtttt gagtgatcca gagaaacgtt gagattatga tcagtatggt gaagatgccc 360

ctt 363

<210> 37307
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-C1

<400> 37307

aggacgagaa gattgcgtcc aagctgccgt ccgatgacaa gaagaagatc gaggacgcca 60

tcgacgcggc catcagctgg ctggacgcca accagctcgc cgaggcggac gagttcgagg 120

acaagatgaa ggagctggag agcctctgca accccatcat cgccaagatg taccagggcg 180

cgggtgaaga catgggcggc gctggcggca tggacgagga cgcccccgct ggcagcggcg 240

gccctggccc caagatcgag gaggtggact aagcggtttg ttgtcagtct tgagcgtgct 300

gcagttgctg gctggnccag tcgctgccgc gagttatcgg cgtcggtcgg tgcggtgtgt 360

ccgttaaact ttaattgtgg tgggctggta cttttggggg tgttattttt ttt 413

<210> 37308
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A11

<400> 37308

ggcgtcttcg tactcgccta cctccgcggt tcaaaccttt ccccttctc ccaattcccg 60

ccgccgctcc atcccgtaac gcgacaccat gagggagtgc atttcgatcc acatcggcca 120

ggccggtatc caggtcggaa acgcgtgctg ggagctgtac tgccttgagc atggcattca 180

ggctgacggt cagatgcccg gtgacaagac cattggggga ggtgatgatg ctttcaacac 240

cttcttcagt gagactggtg ctgggaagca cgtgccccgt gctgtttttg ttgaccttga 300

acccactgtc atcgatgagg tgagaactgg caccct 336

<210> 37309
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A12

<400> 37309

agggaatcag ggaagtgaac tagcggtcca cgatactccg acgcccactt tgctacctcg 60

gaaccctagc cgccgcccat ggatatcgcc ggagaccggc gccggtagcg atacgcaaaa 120

ggagtggtac gttctttgac cttgtttatt gctgcgcccg aggcgtgtgg cgcgggggga 180

gcaggaagga gaggggaaga acagaagggg aaggcgggcg gtgccgcgat gtcggtgcgg 240

atcaaggcgg ttgtagaccg gttcgtgaaa gaactgcagg aagcgctgga cgcggacatc 300

caagaccgcg tcatgaagga gcgcgagatg c 331

<210> 37310
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A2

<400> 37310

ctgagctgat gtacgagaca atccgcgaat ggccaagata tgtcaatgtc cctctacctg 60

ttgcaagggc tattgcttcc ccaagggaga tgctgctcaa taaagtgccg ttcccgcttc 120

caacaccatc cattttcaac ctagaccaaa tcaacgcatt tgctgtggac aacctcgtat 180

cggaagatgc tctgactttc gaagacctca gcatcatgcc tcagaagcta aaggggtacc 240

cggtggagta cctggtgtct tacaggaagg gcgggccgtc gttcggctcg accgtgagcg 300

agaagatgag gagctcggag atgt 324

<210> 37311
<211> 329
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-A3

<400> 37311

ccgaagccta agaccaagca taaggttgtt attgatactg tcgagaaatt ccagacactg 60

cgtgagcaag agcagaaata cttcgatgaa atggttcaga agtgcaaaga tgctggtgca 120

accctggtta tttgtcagtg gggttttgat gatgaagcca atcatttgtt gatgcataga 180

aatctgccag ctgtcagatg ggttggtggt gttgaattgg aattgattgc cattgcaaca 240

ggaggacgaa ttgttccgag attccaagag ttgagtcctg aaaagcttgn gaagggctga 300

ttagtcagag agaaatcatt cggaacaac 329

<210> 37312
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A4

<400> 37312

cccacgcgtc cgcccacgcg tccggtttat atcatgtcaa gattgaacac atcacctttg 60

ttaaaactac ttgaattgtt attttccttt tccacaagag gtacatggca gattcctgtt 120

gagatttgat cttttggtgc ctgttaagct ttctgaatgt gaattactaa ccatagtgac 180

cttgtattag gttcaaaatg ctgggctgga aactattgga ctaagaccgg caaattctcc 240

aagtctgtca actaattcag gggtttatga gcaattcatg cagaagtacc attagccaca 300

gactcaaaat tcac 314

<210> 37313
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A6

<400> 37313

gaggagctca cgagcatgaa acgaatgatg gttgaattgg aaaaactacg cctgttgtgt 60

gagaggataa ttaagagaga gaaggtgaag agagagacgg ttttgtgtga tcatgaaata 120

cttgccaaaa ctaaggacac agttattttc tcctaccttg catgcggagc aagctcagaa 180

tctgcaacta cttcagttaa taacaggtcg tacagtggag cagcacaaag atctgatgat 240

gtcacagtag atagtactat ttctgggaag aaaaccataa ggttttctct gaataacaga 300

ggtgctgata gaaacacagc tgacagctcg aggacattgc tatcattcaa acgcaagttg 360

agtgagaggg gaccacgagc tggtaagcaa 390

<210> 37314
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A7

<400> 37314

gtccctcaca cactcactat acactgctct gctgcagcaa gaaggaagaa gctagcgcct 60

ccctagctct cgttgtcagc aatggccacc accgctgcgt ccagcctcct caagtcctcc 120

ttcgcgggct cccggctccc ttcggccacg cgcaccacca ccccgtcgtc cgtggccgtg 180

gccaccccgc gcgccggcgg cggccccatc cgcgcgtcca ttctctcccc caacccgccc 240

tacgacctga cgtccttccg gttcagcccc atcaaggagt ccatcgtgtc ccgcgagatg 300

accccgcgct acatgacgga catgatcacc cacgccgaca ccgacgtggt gatcgtgggg 360

cgccgggtc 369

<210> 37315
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A9

<400> 37315

acgcggacgc gtggggttcc agcggtctat tggttttgag tgggaactca taacttacac 60

agatgatact tcatctttag cagaaactga tttggatgtt ctgtccagaa ccaagcctaa 120

agaagcaaac gagcttattt ctaagcagga atcgcaggat aagttggaaa aggctcctga 180

tacctctgtg ccaactaatg ggaatagcta ccaagaaaag cttattggca gcccagatat 240

acgaccaaag aaattggcct taaaattagc atttacttta ccaacatcat gctacgctac 300

aatggctatc cgggagcttc tgaagacttc cacctcag 338

<210> 37316
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B1

<400> 37316

gaggctgcag tggaggacat gggccgcctg cttcatccaa gctgcctggc accggtactg 60

caggaagaag atcgaggatt ctttgcgtga gaaggagaag aggctgcagt tcgcgattgc 120

caacgacagc tccacttcgc tcagcttcat ggcagcgctg tatgcttcgc ggttcgctgg 180

gaatatgata cggatcctga ggagaaacgc cacgcgcaag gccaggctgc aggaaagagt 240

gcccgcgaga ctgctgcaga aaccggctga acccaacttt tccgcagaag agcagtagta 300

tttcgcttct ctgacttctc gttttgcaga tacagatatg ggaaaattgt tgcgtga 357

<210> 37317
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B10

<400> 37317

cttggttgtc tgaaaacttt cctgttgcat acaaaacgtt atgcgaaggt gtttctgaag 60

ctcaattaaa gtcagcagag gatgatcttg gtttcaagct ccctatgccc acaaagctgt 120

tgtatcgctt ttgcaatgct caactgcctt ttagtgagga ccatgacaca aataaaagca 180

tttccactca tggattgatt gggggctatg cgttttatga tcattgggtg aatgtgcatt 240

tgtcaccgct tgagcaaata gttgaagaga cgaaggactt ctatcgggag ttccctgatg 300

tatttcatgg gcgcaaattc attgtagtgg caa 333

<210> 37318
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B11

<400> 37318

gcttgccact ggggatgtgc tattcgatcc acatagtggg cgataatttt gacagagatg 60

aggatcacct cgcactgatg atggagctgc taggaatgat gcctcgaaag attgcgttgg 120

gtggtcggta ttcacgtgat ttcttcaatc ggtatgggga tttgcggcac atccgacgct 180

tgcggttctg gcctctcaac aaggtgctga tggagaagta cgagttcact gaaataaatg 240

ctaatgggat ggcagatttt cttgttccaa tacttgattt tgttcctgag aagcgcccta 300

cagctgctca attgcttcag catccatggc 330

<210> 37319
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B12

<400> 37319

cggacgcgtg ggtggcttgc ggagaatggt gcctggaagt tcgaatagtg tgcggattgg 60

atcttcaaga aggccagtag cttggccact agtggcagcc cggacatctg cttcaggttc 120

tcggccttct tcacctaggt cacttgttga tggggaaggt tacaacagtg ctgatgaaca 180

gggcccctgt tatgccttga gttatgatga ttcggaaagg gagcgtatgt ttgaccatg 239

<210> 37320
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B2

<400> 37320

gttctatgca gcatattgtt atcaattgta tatcttgatt tgattcctat tggatttgga 60

ttagttcgat ttcaataggg gttcttcctg tatttcgtct tttattatgt tagatgaagg 120

ggaaaaaatg ggaactcaaa gatatcgaag agtaaaaaaa aggatggaat aaaagagtga 180

ttggttgaaa agaaagagaa atagaataat gagaatcata tggatttaca caaacctcta 240

atgattagaa actaaaaacg agatctcgaa gtaattcgaa cgatttcgat tatcatttat 300

ttgtacttat tagttacttc tacccgatag agct 334

<210> 37321
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B3

<400> 37321

gcctccgccg ctggaatcag gcgatgggtt acgcggacgc ctacgcgaag cgggtgctac 60

tcaccgcagc tggcgacacc gtctcgcggg ggatcgcctc taccctcacc aagcacggct 120

gcagattggt cttgttgggc gacgagggcg cgctggccgc gacggaggag gaggcgcggc 180

gctgcggggt agggggcgga tgcgtcgaat tggtcgggct ggacttcaag gcgtgcggtg 240

aggctgctgc cgacgcggcg gtggatcggg cctggcgctg cttcgccgga ctggatgcct 300

tcgtcaactg ctactcctac gaggggggagg tgcaagattg cctcagtata agtgaagacg 360

agt 363

<210> 37322
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B4

<400> 37322

ctcgcgtctc tttcctattc gcgccgcctt cgctgccgct gctgcaagcg ccagctcgcc 60

gtcgtccgaa tagtacactc taacgccgcc atggggcgta tgcacagccg cgggaagggt 120

atctcgtcgt cggcgctgcc gtacaagagg acgcctccta cctggctcaa gaccgccgcc 180

tccgacgtgg aggagatgat cacaaaggca gcgaagaagg gacagatgcc gtcgcagatc 240

ggcgtcctgc tccgtgacca gcacggtatc ccccttgtca agagtgtcac cggcagcaaa 300

atcctccgca tcctcaaagc ccatgggctg gcacccg 337

<210> 37323
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B5

<400> 37323

cggacgcgtg ggcttttaca gccatcgttg taatcctaat agcaatccct ggcatgacgg 60

ttctggacat ctttgtttgc atccttgcct tcatgcccac tggatggggt ttgctcctga 120

ttgcccaagc tatcaggcct gtgattcaaa agatcgggct gtgggggtcg atcaaggctc 180

ttgcccgggg ctacgagatc ctaatggggc ttctcctgtt cacgcccatt gctttccttg 240

cctggttccc gttcgtgtcc gagttccaga ccaggatgct gttcaaccag gccttcagca 300

gaggtctgca gatcttccgt a 321

<210> 37324
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B6

<400> 37324

cccacgcgtc cgcccacgcg tccgtccact cgtccgattg ccccagcagt gtatggagat 60

atttatggat atgggtatgc tccttacggg gcatactctc cggccacttc cccagttcca 120

acggttgatg gtcagatgtt tggcgcacag cattaccagt atccaaccac gtattttcag 180

cctgctacac caattccttc taccactcaa agcaacctgc agtcttccaa caatcctgaa 240

aagccagcag ctaaagcaga tcctgccaag gcaaccgcta atggtgttcc aaatggtact 300

ggtcacactc acagttacag tggaactgta ccaagccaac aaagttcagc actgacgcct 360

gatggaactt atagggcgcc cttgctaggt ggagttcctt ctgcttgtta cctagagacg 420

a 421

<210> 37325
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B8

<400> 37325

agagcagcaa tccagtttta atcagattgt aagggacgct ccgaggcttg gagatgagtc 60

actgttcccc cctttgactg ggtctagtaa caagatgaag cagcctgttt ttacgcctaa 120

gcgtcctcga acttttcctg ctgctgagga tatccatgct gcaaagatgc gctatgctct 180

gggaatgaac gaggacatgt actctgcgtt caaagagatt gctggtgaat accgtcgagg 240

taccatggat gcttttgagt atctttcata tgtcgagcag ttcggactgt cgcaccttgg 300

tcctgagatg gctaggctat tgcctgattc tcgaaaaccg aaggaacttg ctgatgcgca 360

ctataccaat acaccgttga aaaaccttca agaaaatgga aattattaga aggggg 416

<210> 37326
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A10

<400> 37326

cggacgcgtg ggcagtgtgt gtgtcgtagc tatagcagtg cccggtgcgg actgcgagtg 60

acatgggcta aataaagtgt gcgtcgtctg gtctggtggt ggtagtgggg cgcggtgccc 120

catgtgtgcc gctgcagctt gtgtctctgt gttgcttcat gttctctgtc tatctactct 180

catgtatggc agtttgggta cgggtatatc aagcatgttc agtcttcttt ggttgaaaaa 240

aacaaagaaa ttggacagaa aattagcatt tactctacca acatcatgct acgctacaat 300

ggatatccga tagctcctga agacttac 328

<210> 37327
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G12

<400> 37327

gggaagcgtc ttcacgcgac tgctcgtgat cttctgacat cgtcgactca gctgatcctg 60

gcgcgcgcca acaatcagac cttcacgtca taccgcatcc tccgctcgcc gacctcccgc 120

gcccggtcct tgagcacccg cagctggccg gcggcgtcgt gctgcgcgaa catcttcctc 180

acaaaccatg gaggccacag gaggtagcgc aagaggccgc tcctgcggag gtgcacgtcg 240

gggttgccgc ggtacacgta cttgtcgatg cagttgttgc agtcgttggc gaggatacgg 300

acctggttca tccacgtgcg cacctgcacg ccgtgc 336

<210> 37328
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G2

<400> 37328

cggacgcgtg ggttcataca tcctgccatt caaaggtcat cctgagaggc taacgcatag 60

cgctgaaact atactgtagc aagtagcctt tcgtgactgc agagacctag ccatccagat 120

ctaaatggct gcctgttcat agctaaaatg catagcacca ttattcattt gcaacactat 180

cattcgattt ctacgagcta ttcatgtact gctcggatgc cagtcttctt gactctaatg 240

ctatctccat cagtgtactc atcctgatca tcttatttca aactacacta tgcgaacaat 300

gcagtctata gtacaaacag cgttctgcac agtcacatgc acgtttagct ggctataccc 360

taacagtaag gatccatgca gaaaacttag tttctaatac tacagtaggt caaatttaca 420

cac 423

<210> 37329
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G3

<400> 37329

gctcggcagg ggaacggtgc gaagcggatt agcgtcgatg cagatccggg tgcagtgcgc 60

gtgcggcgag tcgtcgtgcc cggaatgggc cgtcgtggag ctgcagggcg tggtgcagcc 120

gcaggcctcc ttcgccggcg acatccgggg actccacatc ggccgcctct gctcctcccc 180

ttccccagcc tccgcctcgt ccaaggcagg gttcaccttc acggtggggt accacgagct 240

cgccggcaca aaggtgacgc tcaagaagcc cctgctggtg ctcaggaaga agaaggttaa 300

tgctggtgct caggaagaag agccaccgac ggcggcggag gtggagctgg aggtgatcgg 360

catcatccgg cac 373

<210> 37330
<211> 428
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G4

<400> 37330

tcgctgacgc gtgggccggc gaggcgacct ttcgacctcc gttcctctgc gctccggctg 60

agtttctgat ttgggataat cctgttctct ctgagtgaat caacatgtct gggaatgatg 120

ataagccaca tgctgctgca gacagaataa aggcagccac gttatcagtg gctaagggat 180

tgagcagggc tcaagctgaa cgcgctgcga ctgctgctgc ccgcaatgtg aatgcctatg 240

ggcagaagga agagggacca agccgctggc aggagaggaa ggaagccaag agacagatgt 300

atctgatgag tacagagaag gctgcgaagc tgggcactgt gaagccaaaa gcttcagaaa 360

cttcttctgt tggcgcatat acccaatgcc agaagtgttt ccagcatggt cactggacat 420

atgagtgc 428

<210> 37331
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G5

<400> 37331

acgccacgcg tccgctagtt ctagatcgct ctctatctag aactagtgct cctgatgaag 60

aaggaatacc actcaaaaag gttatggatg catgctcttc ttgctttgag caaagaacaa 120

tatttaccca gcaagttctg gcaaaagcac taaatcaact ggttgaacag atacctctat 180

ctttgctatt catgaggact gtcatgcaag caataagtgt ttttactgca ttggtggatt 240

ttgcgatgga gatcatgtca cgccttgtga gcaagcagat ttggaaatat tccaagttat 300

tggtaggact tctgaagtgt gctatcttga 330

<210> 37332
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G6

<400> 37332

cccacgcgtc cggatggtca ctaattttta caagcatttt aaaactcata aatattggat 60

acattttaaa ttggaattgt atttaatcat tgccttttgt gatcactccg ataatcggtt 120

tatggcaacc tattggaacc aaaaacaata aatcaactgg ttgaacagat aactattact 180

ttgctattca tgaggactgt catgcacgcc ataagggttg ttgctgcata gatagagttt 240

gtgat 245

<210> 37333
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G7

<400> 37333

cccacgcgtc cgaaaaaaaa aaaattaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

gaaaaaaaaa aaaaaaaaaa aaaataaata aaaaaaaaaa aaaaataaaa aaaaaaaaaa 120

aaaaaataaa aaaaaagaaa taaaaaaaaa aaggggggtga acttttagaa gataaaagtt 180

tatgatcggg tatttatgag gactaacatt taattaaggg gagctaaaat tgaattgatg 240

ggacttgttt ataaacatga tgtcattgga aaaacagcgg gctgaccaag ataaatccca 300

tggtataaat accatttttg aaaagtg 327

<210> 37334
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G9

<400> 37334

cccacgcgtc cggtttctaa ttcaggcgtt ctccatcaga tcctgacaat ttccctttg 60

ttctgttggg taacaaagtt gatgtagatg gtgggaacag ccgtgtggtg tcggagaaaa 120

aggcaaaggc atggtgcgcc tctaaaggga acatcccgta ctttgagacg tctgctaagg 180

atggaacgaa cgtggaagat gccttccagt gtattgtaaa gaatgctctg aagaatgaac 240

cggaggaaga attgtatgtg ccagataccg tggatgtggt aggtggcaac cgggctcaga 300

gatcatctgg ctgctgttaa gacatgaggc atccacg 337

<210> 37335
<211> 367
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-H1

<400> 37335

gagcgatccc actcccgatc agcagctgat cgctcactct tgcagctcga tcattcttta 60

gctgctctag ctctagcctc tagccctagc tagtagctag ccactcggtc gtgtagtcat 120

cagccttctg atcgtcaccc atggccactg ccgaggtcca gaccccgacc gtcgtggcga 180

ccgaggaagc gccggtggtg gagaccccgg ctctcgccgc cgtcgtgccc gaggaggctg 240

cccccgccgn cgaggccaag gtggaggagc cagctgcccc ggcggagacc gagccagctg 300

ccgncgctga gcccgaggcg gcccccgtgg cggcggatga agagacgcca aaggaggaag 360

agacggc 367

<210> 37336
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-H10

<400> 37336

gcgagagcgg acccagcaga tggagcgttt gtcataacat tacgaacaca acgagagaaa 60

acgatggtac atggcaagtc aagtgcctta ggttctggag tgtgagaacg ggtaaaaccg 120

acacgaagcg ctgaatcatg tacatctcta gatgggagca caaaagttat gggttggcaa 180

ctgccaggct catctctaga gggcagtgca aaagtctgag gttggaaacc accagtctta 240

tcacttgaac ggattgctga tggttcaaga tcacaagcat cgtgtacttc tacgcaaagg 300

ggcacataat cttcaggttg gcagcgatca agttcata 338

<210> 37337
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-H11

<400> 37337

gaactttcta gtgctgatgg attcttgctt agaaggtcat gtatccaact cggacggaac 60

agacttgatg cgattagcat cccgttgcct gcaatatgaa gcacgtgacc gtccaaatct 120

gaaaactgtg gtatctggtc tcacaagtct ccagaaagat gcttatactc cttcgcacac 180

tttgcttggg attcaacatg ataagaacaa ctcaggtcaa gtttccttat ctgctattgg 240

gaaagctttt gccagagcag acctgaatga agtgcatgaa atattgctgc atgatggata 300

taatgaggac gacnaggcta atgctgagct atc 333

<210> 37338
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-H12

<400> 37338

gctacggcgg cggtggatga ggaggtggtg gtgggtatgg cggtggcaca aggacctaaa 60

actaggtgcc gtagcaatac aagctacaca cgctgttaca attgcgacgg cgcctaaaac 120

tactgaaaga gctaatcggg cgcattcata tacagcatca catcaattct cagtatccta 180

ctgtcattct gatacatata cagcagctca aatgatatca agctgcaaac actgctctta 240

tcactgagca agattgataa tgactgata 269

<210> 37339
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-H2

<400> 37339

cccacgcgtc cgcggacgcg tgggtgactt tgcatgccat gcccatgaca cccctcgggt 60

gcgagtgcga catggcccct gcagcttctc gccagtcgtg gcctctccct cgctgcggcc 120

tgctggtctt ggcccttgca ctggcgacga ccgccgcggt gggcagcgcg cagctgtcgt 180

ccgagagcta ctacgacgcg tgctgccccg cctgccttct caccatcagg accgacgtct 240

cgacggccgt gctgctggag ccccgcatgg gggcctgcct tctgcgactt cacttccacg 300

actgtttcgt gcacggttgc gacgcgtcgg tgctgctaga cgacacggcg agcttcaccg 360

gcgagaaggg ggcggcgccg aacgcggcgt cgctcccggg cttcgacgtg atcgacgaca 420

tcaagatgct gctggagct 439

<210> 37340
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-H3

<400> 37340

gagacacgtc agtggactcg tgcatgactt cgtttgctat ggccatgaca ccattcggga 60

gcgagtgcaa catgagcctt gcagcttatc tacagtctag gcctttggct cgcgtgcgga 120

ctgctggtct tggccctagc acatggccac taccgacgtg caggacagca cgcagctgtc 180

gaccgagagc tactacgacg gcggctagcc ccgcctgcct tctcagcatc aggaccggag 240

gctggacggg cgggc 255

<210> 37341
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-H7

<400> 37341

cccacgcgtc cgcggacgcg tgggttgttg cgtgggctag ttctagatcg c 51

<210> 37342
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-H8

<400> 37342

cacaattcca gctcaggcca ccagttagtt catcgcaaag gcagcaagta agcaagcgag 60

taaccacacc acaactacag ggaggaagag cagaacagag gcagagagag agagagccat 120

ggcggcggtc gccgtgagcg ggaggctgcg gacgctgggg cgcggcgcgt cgggcgccgt 180

ggtgtcgctg gcgtgggacg ccgcgtcggg ggagctggtc gcggtcaagt cggccggcgc 240

gagcggcgcg gcggcgctga agcgggagca cgcggtgctg gccgggctgc gctcgccgca 300

tgtcgtgcgc tgcg 314

<210> 37343
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-H9

<400> 37343

caggagaatg ttttggctga gtcaaggatt atggtcccag actgccacaa acgacttgaa 60

actgcactgg ctgacttgaa agcaacactg gctgaactga aggagtcaaa tgagcaaggt 120

gccgagattg gagaagctga gagtacaatc gcagaagttg aagcagttgt caagccagca 180

gaagattaaa ctaaaaaaac tcttggtttg ctgaactgtt agcgcacatc ctattttcgc 240

atattgagcc cttgtgagcc tattacgaga tgtttgaggc gtgaaatcct gtaccattat 300

catcacttct atcttgaaat ttgagtttct 330

<210> 37344
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A1

<400> 37344

ggcagaagag gagtacgacg agaagaatgt ggcagcgacc ccgcagccgg ccgccaaagc 60

acaggtggtg ggatggccac cagtctgcaa ctaccgcaag aacacgatga ctaccaccca 120

gctggagggc agcaaggagg atggtgatgc caagcagggt caggggttcc tgtacgtcaa 180

ggtcagcatg gatggcgcgc cgtacctcag gaagatcgac ctcaagactt acaagaacta 240

caaggacctg tcgaccgcgc ttgagaagat gttcagtggc ttcattactg gcaaggacgg 300

ctcatctgag taccgcaagg atggtgaata tgttctgact ta 342

<210> 37345

<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G11

<400> 37345

cggccgaccc acgcgtacgc gcaagctcgc gccttttatg ccggaccatg aagtcgcgtc 60

ggacagcatg acggtcgggg agggtctgct catgatggac gatgaagaga gggtacggcc 120

atgctgagat cccgaccagt ggctatcgca agctgcgcgt ctgactgcga cgtcgcctag 180

tcaagaacta cgaccagatc agggacaacc gctgcaaaaa ctgtccattt gtatagatgg 240

acagagagca cgacatcacc gtgaactaga ccaccccgaa ctttactgga attatctgtc 300

tgatggaccc cactctgagc taggcagccc gttggttgaa aattggcagg ttcatta 357

<210> 37346
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E12

<400> 37346

gctcaaggtg tccaaggcgg agttcatcgt tctgtcgcgc aagtccggca agttcgacga 60

ggacagcctg gcgttccagt cgcgtctgct ggccaagtcc ggcatcggcg acgagtcgta 120

catgccgcgc tgcgtgttcg agcccaacgc cagctgcgcc accatgaagg agggccgcgc 180

cgaggcgtcc acggccatgt tcgcggcgct ggacgagctg ttcgacaagt gccgcgtccg 240

gcccaaggac gtgggcgtgc tggtggtcaa ctgcagcctc ttcaacccga cgcccttcct 300

gtccgccatg atcgtcaacc actacaagat gcgc 334

<210> 37347
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E2

<400> 37347

gcggcgaaga agccggtggc caagaagctc gcttaggatg agcccgcgac agagaaggcg 60

gtgaacgctc cggcggggaa gaagcccaag gccgagaagc gcctaccggc gggcaagtcc 120

aaggagggcg gctagggcta gaaggggaaa acgaatgcga agaagtccgt ggagacctac 180

aagatctaca tcttcaaggt gctgaatcag gtgcaccccg acatcggcat ctcgtccaag 240

ggcatgtcca tcatgaactg cttcatcaac gacatcttcg agaagc 286

<210> 37348
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E3

<400> 37348

ggaggcggca acaatggcga acagcggatt cgtgttatat atccgagagc acgactagca 60

tggaggggc gtcaggcgta cgacgacttc gacgggacac gccagatctc gtggttgtcg 120

agttcgtttg actccaaccg tggccatgcg tcgggacact ggctacgcgg gtcccacgta 180

ggctgcccat tttgggaccc ttgtcttcag acacgtgcat ttttacagta tctcgtttta 240

gaactgaatt ctacattaac tatcacagtg caagtgtata tcaccctctg ggtcctaaac 300

tatatttaga tcgttttgga atactcccta gtggtaatag actc 344

<210> 37349
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-E4

<400> 37349

gccgccgccg ccaccaccag cactgccact ctcttcacca ccgtcccgaa gccccctccc 60

agcgccatcg acttcatctc ggattgaagc aatgtcgtcg gacgatgagg tcagggagga 120

gaaggagctc gacctctcct ccaacgacgt tgtcaccaag tacaaggctg ccgccgaaat 180

cctcaacaac gctctgaaga ttgttgtgtc tcagtgcaag ccaaaagtca agattgttga 240

cctttgcgag aagggcgact ctttcataag agagcaaact gggaatgttt acaagaacgc 300

aaagaggagg attgaaaggg gtattgcttt cccaacctgt gtatncgtca atgacacagt 360

ttgccacttc tcaccgcttg caaccgatga tgccgttctg gaagaaaatg acatggttaa 420

aattgatatg ggct 434

<210> 37350
<211> 124
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E5

<400> 37350

acacagctga gcagactgca acagggatgt gaggcgttta ttgccgcacg cagtactgca 60

aatggagaca ttacagtagt agaggaagca gagaacataa ttcaggcaat caagtcagtc 120

agag 124

<210> 37351
<211> 118
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E6

<400> 37351

cccacgcgtc cgcagaagat caattgcttt ccaaatccac gctgacacca actcgacgag 60

ctgcgcgcca agcaccaaag ctccgatggg ccgcactaaa cagactgctc gcaagtcg 118

<210> 37352
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E7

<400> 37352

ggcacacgca ctacacgcac ggcacgcata tacatataga gagaggttag ctatagcttg 60

cacatctatt taactaacta actaactggc tagctagctc gatccgcaga gcaaagcgaa 120

agcagcaaga agcaaagcaa tggagaaccc tgcgagtgtg ctagttctac cagcgcagtt 180

caccaaactc accttcggaa acctgtacat ccgccgggcc gggccgggca gcagggagat 240

aaccgaggag ggcaggtgcg acctggacag gagatacgtg agtaacttcc ccgtctacga 300

cggccgcggc cccgacgcca gccttgtggc ccgcgtgcag gggatcacca gcgaaatcgg 360

gaacgcgcac caactgttcg tcgttgtgtt cgacaccgac aggtatac 408

<210> 37353
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-E8

<400> 37353

cccacgcgta cgcccacgcg tgcgttcgtt gttctgctgt ccaaacacat gtctactgtg 60

tgaaaatagc tcattttgta gttacatttg catcaagctt tgatgattgc tgtacaagga 120

tgatatggcc tnccgcccaa agctgtctgg tattcagaag caggttttgg cgctgtacag 180

gggattcctt cggacagcac gccttaaggc ccctgaagaa cgccgcagga tcgagtctgt 240

tatcttggca gagttccgtg acaacgcaag gagtgttgac cgtaggaact ttgtacacat 300

agagtacttg ttgaggagag ggatgaagca gcttgagcag ctcaagaatc ctgatattac 360

tggactcgct a 371

<210> 37354
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E9

<400> 37354

acttgattaa ccagcctttg gtttggctcg tcctccctct ccggatctct cccgtttctg 60

tgtggcgaga gagacatggg ccggggtggg aggacgatgc atctagctgt tgacgatgac 120

gaaaaatttg tgatgatcgt ggatatcaag tgtaaagatc tagagaggat gatgatgtaa 180

ctttttctct attttctttt ctttttttgtt atacgtccac acacatactt tgctaatacc 240

atgctctgca gaagtgcctg tactagctca attcctataa actaaactat tataccctgt 300

gttct 305

<210> 37355
<211> 332
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-F1

<400> 37355

agaaaactga tgtatttggc tatggaattt cacttttaga gcttattaca ggacagcggg 60

ccttcgatct agcttgcctt gctaatgatg atgatgtcat gcttcttgat tgggtcaagg 120

gattgctcaa ggagaagaaa ctggagagtc tggtcgacca agatctagaa cacaactacg 180

tcgacgttga ggtggaatct ctggtacagg tcgcactcct ctgcactcag agcaacccca 240

tggaacgccc taagatgtca gaggttgtga ggatgctcga aagcgatggt ctcgccgaga 300

gatgggaaga gtggcagaaa gcggaagtag ta 332

<210> 37356
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-F10

<400> 37356

aaaaaacgtg agcagattcg agtagaattt tatttcaacg ccctgcaaca aggtagcggg 60

gctgattgct atataacatg cacgaacatt atcatagcaa gccatatgca acgggccaaa 120

tagttcacgt ggaagagtat gaacatgagt cagagtggct caaatcgata actcgccgac 180

ataaacgata aaggctaatt ttcagtacat gcataacctg tat 223

<210> 37357
<211> 338
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-F11

<400> 37357

cggacgcgtg ggcggacgcg tgggcggact cgtgtgcgcc gagggtcact tcgcgcgcgg 60

ggatgcggtg ctgatgctcc actacgccta tggtgcggtc aagaagtcca tccacgcgta 120

cgtcgcgcgt gcgggggcca ccgtcgtcga ggtgcccctc ccattccccg tcgcgtccgc 180

cgacgcaatc attgccgagt tccgtgctgc gctcgcggtc gccaaggaag gagggcgtag 240

ggtcaggctc gcagtcatcg accacattac ctncatgccc agtgtcgtca tcccagtcaa 300

ggagctcgtc gccatctgtc gagaagaggg cgttgaca 338

<210> 37358
<211> 340
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-F12

<400> 37358

cccacgcgtg cgatgcatac gaataagcat cgnctgaacc tgactaacac tcagctaagc 60

aagctctttc tctactgcaa taatggccgc tcgctcctgc tgctcccagc cgcagctggt 120

cgcggcggcg gcggtcctgg cagcggcgct gctgctgctg gcggcagtgg ccgggacggc 180

gtcggcggcg gtgagctgcg gcgaggtgac gtcgtcggtg gcgccgtgcc tcgggtacgc 240

gatgggcagc gcggcgtcgc cctccgcggc gtgctgcagc ggggtgcgct cgctcaacag 300

ccgcgcgtcg tcggcggcgg accggcaagc cacctgcaac 340

<210> 37359
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-F4

<400> 37359

cggacgcgtg ggcggacgcg tgggcggtct aagaagaccg acgactcact cacaaccaat 60

tagctcaaga tcgagctata gagagaaaag ctaagatcga aacatatacc aatgggcaac 120

agccttaggt gctgcctggc ctgcgtcctc ccctgcggcg cgctggacct gatcaggatc 180

gtccacctca acggccgcat cgaggagtac ggccggccgg tggccgccgg cgagatcctg 240

gccgtcaacc cgaaccacgt nctcagcaag ccgtgctccc agggcgtcgc cgtgcggagg 300

atcctcatcg tgtcgccgga ctccgagcta gagcgcggcg agatatactt nctcatcccg 360

gnctcgtcgg tgccgccgga gaa 383

<210> 37360
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-F5

<400> 37360

aatctgtgca ctcccagccg ctgcacctgg cttcttcgcc actctctcct ctactcgttc 60

actctgccag gtggccggcc agccctgctc ccatctccca cagccgccgc cgccctcagc 120

tcctcagtca cctcccatgg cctcgtctac ctgctgcagc gaagccgacc accgtttcct 180

gcagcctcga tagctccctc gatcgctncc ccccatgccg tccctgctca cctcaccttc 240

gtcggccgtt cttggacgcc gtgctcggcg cccgagctcc ctacgccggt caccatgctc 300

tccatggcag gagctccgat cggaccctgc tgaccttggc actcggcgtg gctccaagca 360

gggccttctt ccccaggacc ggg 383

<210> 37361
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-F6

<400> 37361

caccggggca gagcgcttca gtgacacatg ccgctgctcc aagaaaccac cgccgagccc 60

aaccgcacaa gcgcgcgagg caggagagag agagaggcgg tgagcaaaac aatggagggg 120

aaagaggagg acgtgcgcct gggcgccaac aagttctcgg agcgccagcc catctggacg 180

gcggtgcagg gcgccgttga cgacaaggac tacaaggagc ccccgccggc gccgctgttc 240

gagcccgggg agctcaagtc ctggtccttc taccgcgcgg gcatcgccga gttcgtcgnc 300

accttcctgt tcctctacat caccatcctg accgtcatgg gcgtctccaa gtccacctcc 360

aagtgcgcca ccgtc 375

<210> 37362
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-F8

<400> 37362

cccacgcgtc cgcccacgcg tccgtccact cgtccgccca cgcgttcgcc cacgcgtccg 60

cggacgcgtg ggaggagatc ttcattggac tgaccctggg tctgatcgcg ggaggcatgt 120

ggaagatgca ccactggaac gagcagagga agactaggtc cttctatgac atgcttgaca 180

agggccagat cagcgttgtc gtcgaggagg taagagttct tcccaggtat tttcaaagaa 240

ctctctcgag agcatgacaa agtgattgct ggctgtggaa atttgtcctg gaaataagcc 300

caaccatttg ggaccaccaa attttgccga attttccttt cctttggatg aatatttgag 360

cccgtccatg taaataccaa acatttggcc tttacttcat ctctttttc ctt 413

<210> 37363
<211> 93
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-F9

<400> 37363

aaaaaaaaaa aaaagattga ataaaaaaat ttttaattta aaaaaatgaa aaaaaaaaaa 60

agggactaat tgaataaaaa acaagcataa act 93

<210> 37364
<211> 339
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-E10

<400> 37364

cacatnccct cccttcttcg gttattcctt gttgcgtgcc ctcgccgcag acctctgcca 60

tggcggacca gctcaccgac gagcagatcg cggagttcaa ggaggccttc agcctcttcg 120

ataaggatgg cgacggctgc atcactacca aggagcttgg aacggtgatg cgctcccttg 180

gccagaaccc taccgaggca gagcttgcag gacatgatca acgaggtcga tgcggatggc 240

aatgggacca tcgacttccc ggagttcctg aacctgatgg cgaggaagat gaaggacacg 300

gactcagagg aggagctcaa ggaggccttc cgcgtcttc 339

<210> 37365
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G1

<400> 37365

acggcacgcg tccggccacg cgttcgggca ttagaatgtg caattcttag agaaactcaa 60

ggaactgggt ctgtttattg agaggaaact agacaaaaag gatttcggtc cattgatgtt 120

ctactcccaa cctgatggtc ctatagttgg aagtggcacc ttcaaatcca ctggtctagt 180

tccaggcgaa cctgaagcat tctatgtggg tcctccgtct agtgaaaaac tgccaaagaa 240

tgcttcacct ggggctggtt tggttgggtc cataacctat ggtactgtaa gcacatttaa 300

caagaaagat gaacaaaacc accgtgcttc aatatcttat aagatctcat ataccatttt 360

<210> 37366
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G10

<400> 37366

cggacgcgtg cggcttctaa ttcatgcgtt tccatcagat cctgacaatt tccctttgt 60

tctgttgggt aacaaagttg atgtatatgg tgggaacagc cttgtggtgt cggagaaaaa 120

ggccaaggca tggtgcgcct ataaagggaa catcccgtac tttgagacgt ctgttaaaga 180

tggaacgaac gtggaagatg ccttccagtg tattgtcaag aatgctctga agaatgaacc 240

ggacgaagaa ttgtatgtgc catataccgt ggatgtggta tgtggcaacc acgctcagag 300

atcatctggc tgctgttaag acatgaggca tgcact 336

<210> 37367
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C4

<400> 37367

accagacgcc gtcagcgacg accttggctt ctcgtcatgg ttgcggtgcc acgagtagta 60

ggcgtgcgtc cggttcacca acaggtactg gatgcccacc gacgacgaca caaactgacg 120

atcaccgccg cagagggaac aaattactga tagatcagcg tagcacgttc ctgagctagc 180

cccgcccccc ttatgttctc caattcagta atgcaatgcg tttttat 227

<210> 37368
<211> 77
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C5

<400> 37368

cggacgcgtg ggttttttg gggttcattt taatgaaaaa aaaagaaaaa aaatgaaaaa 60

ggaaataggg catgctg 77

<210> 37369
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C6

<400> 37369

cggacgcgtg gggtctccca ccggtgacgt ctacgtcggt ggaaccactg ggcttctgat 60

ctgggccgtc accctcgctg ggatcctcgg cggcggcgcc ctcctcgtct acaacaccag 120

cgccctctcc ggctaaggat atccaatgca tgcgcttctt gcgattcgtc atgtaaaatc 180

agggtgtctg tctataatct agcctccatg gatgctcaac cttcgtcatg taacaataat 240

cagtgctact cttcattaca taattttgat gctatatata tataccccat ccctcccc 298

<210> 37370
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C7

<400> 37370

ggacgatcgc ataccactct ctcctcgagt cagctagggc tggtggtctc acgctggaac 60

tgaatccagc catggccggg ctgagaattt ccgacagcag gaaagggtgc agcatgtaaa 120

gggggggagca gatgagatca tgtttgggat gctcccagat atgtatagtt atgtatcagc 180

cagttgtttg taaattacca attaatatta gaagttatta gaaaaaaatg gagttaactt 240

gtacgtttcg tgtgctctgt catctgaagc aattaaagtg gttagc 286

<210> 37371
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C8

<400> 37371

cccacgcgtc cggttagaaa caagtatatc ataagagttt ccttgcgaag gaacacctca 60

agagtctaaa gtctaaaggg tgttgtccca ggtcagatgt ctatcactat tagtctatta 120

tcacctgcca attcatgcac atcatttcca tcattgtctg tgcgaatcat acatgaccaa 180

gagttagcaa acagagaaaa taaataatca gacattcaga tgggtatgtg ctgtgtgtag 240

caacaaatta taggatgacg aacatagagt atttgcatgc ttgttgttga gtattgttca 300

tttaccggac catctaaagc ctttgtttct acactgctct ata 343

<210> 37372
<211> 332
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-C9

<400> 37372

cccacgcgtc cgcttagtca gattcaagtt attaaagagg cagttgagct tcccttgact 60

ttccctgagc tatattaata cattggtatt aggccttcca agggagtcat attataagga 120

gaacctggaa caggaaaacc tcttcttgcc aagaacaaat tttgagggtg agcatgatac 180

agtcactgag aaggacctag aacatctnct gcaactttta gataataagg aaagcgggga 240

tacagcttgg cagaatttga tggagcgtag aacctncaac atgacataca atgcctggcg 300

gcgtgagcct gangagggac ctataatgta ct 332

<210> 37373
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D1

<400> 37373

cgctagggtt tatctgctcg aggaatggtt tcggtgcagg tctccggcgc gggggtcggt 60

accgcggcct tctctgtgaa ggggaaggcc tccaccggtg cgctccggct tcgctctacg 120

ttgaccttcg gcgaggtctg cccggcgcgg cgggcgttcc gcggcctcgt cgtcagggcc 180

gctaccgtcg tcgcccccaa gtatacaaca cttaagccct tggctgatag agtgcttgta 240

aagattaact cttccgagga gaagacaact ggtggaatct tgctccctac gactgctcag 300

tccagacctc aaggtggcga ggtagttgct gttggagaag gaaggataat tggggataag 360

aaagttgatg tcagcattca ggttggagc 389

<210> 37374
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D10

<400> 37374

cccacgcgtc cgccccggcc gccgcggtgt caacccagct ctccggagcg cccgcgaccc 60

ctgctcccgt cgtcagggtg gcggcgccgc gcggagtcgc ctcgccgtcc gctggcgccg 120

cgtgcagggc cagcgggcaa ggggaaggag gtgctcagcg gtgtcgtgtt ccaacccttc 180

gaggacatca agggggagct cgccctcgtg ccccagtact cagacaagtc gctcgcgcgc 240

cacaagttcg tggatgactg cgaggccgcc ctcaacgagc agatcaacgt ggagtacaac 300

gcctcgtatg cataccac 318

<210> 37375
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D11

<400> 37375

ccaccacaag cgccgccgca gccggtgcct gctccttccc gatccccgag gcaaagctgc 60

gactccgcaa ccgccgccat ggcgttcgag aagatcaagg tctccaaccc aatcgtcgag 120

atggacggtg atgagatgac cagggtattc tggcagtcta tcaaggacaa gcttatcctc 180

ccatttctgg acctggacat caagtactat gatttgggga tactgcaccg tgaagcaact 240

gatgacaagg tcacagtgga ggctgcagag gctactctca agtacaacgt ggctattaag 300

tgtgcgacca ttactccaga tgaaactcgg gtt 333

<210> 37376
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D12

<400> 37376

cccacgcgtc cgcggacgcg tgggcaacgt caccagctag cagcagcagc agcagcatgg 60

ccaccaccag cacgcctcgc ctcgccaccc tcctggtgct cctggcggcg gcgtcaccgc 120

tgctgagcgc agctcaaaag gccgccccga aggctccggc ggcggcgaag gcggcgccag 180

ggccggcggc gtcgtcgtcg tccggcgcgg gcgcggcgga cgcggccccc cccacagacg 240

tgaacaaggc gctcaaggac gaccagttca gcgagttcaa gcagctgctg cacgacacgc 300

gcgtggacac gcagatcaac gcgcagctga cggaca 336

<210> 37377
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D2

<400> 37377

cccacgcgtc cggccacact gaagccaact catagtgatg cagtccttca ggagatctta 60

gagaggaata tggctactga ggaaatactg catactgaca tggctgctga ggatgcacct 120

acaaccaatt tgatcaccga gaagtcatca atgaaagatg cttgacagga gccagttcaa 180

actaacgaac catctgagca ggcactgata actgaagaga ttgataagcc acagcatagt 240

gaaaagattg ctacggacac gagatggact gaagaatcta ctgaggagat gcttgagctt 300

gaaagtaatg ccactgaatt aaacaaggat caatgagaac ttgaagggct ttcatctg 358

<210> 37378
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-D3

<400> 37378

ccgggaaaga gcttacgctg ctggggtgtt gggcgagccc gttcgtgctc cgggcgcgca 60

tcgcgctcag tctcaaaggc ctcacctacg cttactgcga ggagaacctt gacgacaaga 120

gcgagcttct cctcagcttc aaccccgtgc tcaagaaggt gcccgtgctc atccaccacg 180

gcaagcccgt ctgcgagtcc cagatcatcg tgcagtacgt cgacgaggct attcccggcg 240

acgcacctaa tttccttcca tccgaccact acgaccgcgc cattgctcgc ttctgggcct 300

gctacgtcga cgacaagttc tacagcgcgt ggatacccgt gttcaggggc atgacggcng 360

aagagatggc ggaggctgcc aggcaggccg tcgcggcgct ggagacactg gagcaggcgt 420

tcagggagtg c 431

<210> 37379
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-D4

<400> 37379

aaaggcaagg ctgtcgattt taaaggacat atactccagt tctctggatt tgtttggcat 60

gaaagtgatg aaaagcacag agtcaaggca aaagaaaagc ttgacaagtg tgtaaaagaa 120

acgctgttgg acctttgttg gacccttggc attccaactc caaaagcaaa cattagaaag 180

gaagatattg tgtcaaagct gttggacttt attgctgaac ctcactctgc agctgattct 240

gggctctctg atgaccaggg ttcaaattct aaaaaacgca agagaggagg tgaaagtgca 300

cgtaagactt ctgatagcac acctagtang tcaagaaaga aattatcaat gacagcactt 360

ctagtaaaag gcagaaaaaa gcgctcgaat atgatactga tgaggatgaa tc 412

<210> 37380
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D5

<400> 37380

cccacgcgtc cgccctttcg tccgttattt caacagctat caccaccgcc agcacgatgg 60

ctgttaccag cacgcgtcgg gtcgacacac tccaggagct cctggcagcg gcttcaccgc 120

tgctgagcgc agctcacaac gacgccccta aggctacggc tgcggggaaa gctgctccag 180

ggacggctgc accctcacat tccgtcgcat gcgctgccga cgctgaccct ctcacaaact 240

tgaacaaagc gctcaatgac gaccagatca gcgagttcaa acatgctgct gcacgacacg 300

cgcgtggaca cgcagctcaa cact 324

<210> 37381
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D7

<400> 37381

ccaggcctac accttgaagc ggatccggga ccgggactac catgtcacgc tgcgccccga 60

cctttccaag gagatcatgg actcgaccaa ggctgcggcg gagctggtga agctgaaccc 120

tggcagcgaa tacgcaccgg ggctggagga caccctcatc ctgaccatga agggcatagc 180

agccggcctc cagaacaccg gttaaaccac gaagagggga tctttttttct cctcctgatc 240

attggctcta ggttcttcgt attttcgcgg at 272

<210> 37382
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D8

<400> 37382

gatggttacc agccccactt gattgccctt gagcaaggat acagaaggct tatagatagt 60

tctttaagct actttaaggg tccagctgaa gcgtctgttg atgcggtcca tttggtctta 120

aaagagcttg ttcggagatc gattgcagca acagaggaat tgaagcgatt tccaacactt 180

caatcggata tagcagctgc tgcaaacgaa agcctggaaa gattccgcga ggatggacgg 240

aagactgttc ttcgtctaat agagatggaa gccagctacc taacagtaga atttttccgc 300

aagcttccta ctgaaccaga gaaagcggct gataagaaca ctccagtgag tgatagatat 360

caggacaatc atctcagaag aataggatcg aatgtgtcat cttatattaa catggtctgt 420

gagactc 427

<210> 37383
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D9

<400> 37383

cggacgcgtg ggcggacgcg tgggccggtg ttcgttttcg tgggtgagcg gatcgagatg 60

gcggcgtcgg atgttgagta ccgctgcttc gtcggcggcc tcgcctgggc cacggacgac 120

cactccctcc acaacgcctt cagcacctac ggcgaggtcc tcgagtccaa gatcatcctc 180

gatcgggaga cgcagaggtc ccgcggcttc ggcttcgtca ccttctccac ggaggaggcg 240

atgcggaacg ccatcgaggg catgaacggc aaggagctgg acggccgcaa catcaccgtc 300

aacgaggccc agtcccgcgg cggccgtgga 330

<210> 37384
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-E1

<400> 37384

gtgacacagt tccacgcagc agatcagagt gctgcaggta cgctagcgat ctagctaccg 60

ctgtgctgcg tacagtacgt agtaccatgg cgaagaaagt ggccactctg ctggccctca 120

acctcctctt ctttgccttc gccgacgcat gcggctgcag gtgcggcgga tcctgcccta 180

gtccaggcgg cggtggcggt ggcggtggag gatctggtgg tggtggtggt ggtggtggaa 240

gcggtngggg tgggagtgga gggggtggat cgggtggtgg gagcggt 287

<210> 37385
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C3

<400> 37385

cccacgcatg cggattggac aaggccattt ccttaagaaa tttgtgattg tgattgcagg 60

actgtggatc ctgtatgttc ttgggagctg ctgcaattat ctcaccttgt cttacatagt 120

tagtatggta ctgtacactg taccggtcct gtatgagaaa catgaggata aggttgatgc 180

ttttggagag aaggccatgg tcaacctgaa aaggtactac gacatatacg acgagaaatg 240

cctattaaag attacgtatg gcccattaaa agacaagaag caccattaga agcttagaat 300

cagataaggg tacctggaga ttgatcatct gtaatgacca ttattcgt 348

<210> 37386
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A9

<400> 37386

gctgggagag gctttaccct tgaggagctt aaggctgctg gcatcccaaa gaagcttgct 60

ccaaccattg gtatttctgt tgatcaccgc cgcaagaaca aatcccttga gggactgcag 120

gccaatgtcc agaggcttaa gacatacaag gccaagctgg ttatcttccc aaggcgtgcg 180

cgcaaggtga aggctggtga ctctactcca gaggagcttg ccaccgctac ccaggtccag 240

ggtgactaca tgccatttac tcgtggtgag aaacgttcag ttgaggttgt gaaggtcaca 300

gatgagatga agtcatttgc tgcctatggc aagct 335

<210> 37387
<211> 243
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B1

<400> 37387

cggtcgacca cgcgtccgtg acggatacga tgttaaatgg aactttatta tgagcagcga 60

cagaatgaat gaagtgtgaa ctctttcact atcaggacgg acgcaaactg caaatactaa 120

ctgctcatgt gatcaatcat aagagtaaga gatcgcgttt gaaacattag caattagcgt 180

aaggaaagac cttgctactg aacgaatgac atcaagtata aatggttcga cacatatatt 240

tca 243

<210> 37388
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B10

<400> 37388

ccatagggct atttataagc cgcatggcat cagggaataa atcaaacaag atcattatca 60

aaccaatctc tctctccctt gcaatgaccc tctcaagcgc ctagggctgc taccctagaa 120

ccaagcctat agcagagggg tataacctcg ccggagaaga caactatccc catggaccga 180

aggtccatga cacctggtat cagcttcagg ttatcctcac caacaacagc cggccattcc 240

ttaccaccac cagccgtcga gccatctggc ggcggaacgg gcctccaacc ggc 293

<210> 37389
<211> 334
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-B12

<400> 37389

cccactacgc ggtcttcgct cgctcctcga gttcagtcct cacctcccca ccgagctcca 60

ttaatggcgc ctcccctaat tttgccataa gtgccgagac cacgtggggt ctgggaagga 120

aaggctactg ccacttcaga ggtcggcctg ngaggctgca tcgcatccac atggngtacc 180

agcccatgca cggcaacggc gggacagccg gtgccgggac atcaggctcc ggcggcggcg 240

gcggcggaga ccacttgcgc caccaccacc agcagcgcct gcacagcccc cgcatggccc 300

gcngaggctt catgacgcgc cgggccagct cgtt 334

<210> 37390
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-B2

<400> 37390

cccacgcgtc cgcccacgcg tccgcccact cgttcgcgga cgcgtgggct gacctcgttg 60

gcctcaccta cctaccaatg gttatcaagg aggttcttcg gctgcatcct ccaaaccctc 120

tgttggtccc gcgtgagtcg agagaggatt gccaagtcat gggctaccac attcccaaag 180

gcaccaaggt gctcgtgaac gcatttgcga tctccaggga ttcaaggtac tggaacaacc 240

ctgaagattt tagcccagag aggtttcaga ataacaatgt cgactacaaa gggaccgatt 300

ntgagttcac ccncttcggt gctggtcgtc gacgctgccc tgcaatcatg 350

<210> 37391
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B3

<400> 37391

ctgggagctt tgctggtcta tgacattatt agacgccaga gcttcgatca tataccccgc 60

tggctagatg aactccgagc ccatgccgac aagaacattg tgataatgct ggttggcaac 120

aagagtgatc tcgaggagca gcgagcggtg agcactgaag atgccaagga gtttgccgag 180

aaggagaacc tcttcttcct ggagacctct gcgctccagg caacaaacgt agagagtgct 240

tttcaaactg tcttgacaga gatattcaag atccacagca agaagaacat ggtgtcggag 300

ccgaagagca atggagctgc ccaagcaatg ccggggacaa aggtccttgt cccaagtccg 360

gcgcaggaaa tccccaagag caagtgctgc agttccatgt gatgcttcta cgtttgggta 420

ctggtgg 427

<210> 37392
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B4

<400> 37392

ggagaaatga gcagttttgg gttattggtt gcacttctgc ccatctcttc gcggtgttcc 60

agggtctgct gaaagtgttg gctgggattg ataccaactt cacagttacc tcaaaggcat 120

ctgatgagga tggcgacttt gctgagctat atgtgttcaa gtggaccagt ttgctcatcc 180

ctccgaccac tgttcttgtc attaacctgg tcggaatggt ggcaggaatt tcgtatgcca 240

ttaacagcgg ctaccaatcc tggggtccgc tctttggaaa gctgttcttc tcgatctggg 300

tgatcctcca tctttacccc ttcctcaagg gtctcatggg caggcagaac cggacgccaa 360

caatcgtcat cgtttggtcc atcctccttg cgtctatctt cttcttgctg tgggtg 416

<210> 37393
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B5

<400> 37393

gcgcccacgc gtccgtccac gcgtccgtgt tatggtgggc aatgatttaa tgagttttgt 60

gagtacctgg ccactaagtt catggaagga aactcttgct ctgctttgca catttgcaca 120

gaaagaggag tggcatattt tgtgtgacac acttgcgtct aggcttctga atgtcggtga 180

tacactagct gcgaccctct gttatatttg tgctggaaat attgacaaag ctgttgaaat 240

atggtcccgc accttgaaat ctgaagatgg tgggaagact tatgttgatc ttctccagga 300

tttgatggag aaaaccatta cgcttgccct tgctacgggc cagaagagat ttagcgcgtc 360

actgtctagg cttattgaga actacgctga attgctggct agtcaaggtc ttcttaaaac 420

tgc 423

<210> 37394
<211> 298
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-B6

<400> 37394

ctctgttatc agttgagggg atcgatgttt atgcagttaa caggtctgga gagactgcat 60

ttgccattgc cgagaaaatg gacagtgtag aactcgtgga catcctgaaa gaagctggtg 120

gaaaagccgc aaagcagcaa gtacatcctg cgaattcggc gaagcaactt aaggaaacag 180

tcagcgatat cagacacgac gtncagtccc agttcaagca aacacgttag accaagatgc 240

aagtcaacca gatcaagaag aggcttgaga agcttcacat cggcgggctg aacaacgc 298

<210> 37395
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B7

<400> 37395

gcgagcggcg ccctttttta gtgtttttac atgagtcggg tcaaactgag gtcaacatat 60

atgctggaca aagacaactt tgccttgtac tatgtgatat tgccttgtgc tctgctagcg 120

ctacttgttc atccttcaac atcgcacaac atagtgaaca gaatctgctg ggccttctgt 180

gtttatttgg aagcagtttc agagctgccc cagttgcgcc tgatgcaaaa tacccagatt 240

gttgagccgt tcacagctca ttatgtgttt gcactgggtg ttgcaaggtt tcttaactgt 300

gcacattggg tccttcatgt tttggatacc ccaggccgct tgttgactgc tctgggctat 360

tggtt 365

<210> 37396
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-B8

<400> 37396

cccacgcgtc cgctctttac aggagcgctt tttcactgaa agtggaacgt gttgcaagtt 60

cttttagtac actatttact atcactttgt tgatttgcta ggtgataaca aagttctgct 120

ctgaaagaat tgccaagtat gcttttgagt atgcatacct taacaatcga aagaaagtga 180

cagcagtgca taaagccaac atcatgaagc ttgctgatgg tttgttcttg gagtcttgcc 240

gtgaggttgc aaagaagtac cctggaattc aatataatga aatcattgtg gacaactgtt 300

gcatgcagct tgttgcaaag cctgaacaat ttgatgttat ggtcacccca aatctttatg 360

gcaatctggt ggctaatgta nctgcaagta ttgctggagg cactggtgtc atgcctgga 419

<210> 37397
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B9

<400> 37397

gagacattaa atgcgcatat attctggtgc atgcttatgg atctgtgaag cttgcacatt 60

ttggactcgc taaggagatt accaaattca atgaacttaa atcatgcaaa ggaactgttt 120

attggatggc accggatgtt gttgatccgc agcagacata tgtacctgca gatgatatat 180

tgagtcttgg atgcactgtc ctggagatgt tgacacgcca gatacgctat cctgaccttg 240

aatgggcaca agcttatata cagg 264

<210> 37398
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-C1

<400> 37398

ggagaagagg ataagaggaa gcgagtggtg tctgtgagtg agttggaagg agggggggtgg 60

caatggcgtt gcggaatggt ggtggtggtg gtggagcctg tcccgcggcg gttgtgctgg 120

tggctgcggc cgtcgcggcg ctgctgggcg ccggggtggc ggcggcgacc aagttcgacg 180

acgtggtgca gcccagctgg gccaacgacc acgtggtgta cgacggcgac ctcctcaagc 240

tccgcctcga ctccagctcc ggcggagggt tcgtgtcaag gaccaagttc ctgtacggca 300

aggccagcgc cgacctcaag ctcgtgccgg gggactccgn cggcgtcgtc acggctttct 360

atctgtcgtc gggccgggac aagcacaacg agttcgactt cgagttcctg g 411

<210> 37399
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C10

<400> 37399

cctaaatcca gcaaacgcaa accccatcat gccgtcgccg cgatgtctcg ccgctatgac 60

agccgcacga cgatcttctc gccggagggg cgtctctacc aggtggagta cgcgatggag 120

gcgatcggca acgccgggtc agccctcggg atcctagcgg ccgacggcgt ggtcctcgtc 180

ggcgagaaga aggtgacctc caagctcctt cagacctcgc gctccgccga gaagatgtac 240

aagatcgact cccacctggc gtgcgccgtg gccgggatca tgtgcgacgc caacatcctc 300

atcaacagcc gccggctgca cgcccaacgc tacgcgc 337

<210> 37400
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C11

<400> 37400

cccacgcgtc cgcactacct tcccaacatg ttcaagaagt ttgtcgttca caacgtctct 60

gagctggagc tgctgttgat gcacaacagg acatactgtg ccgagattgc ccacaacgtg 120

tccacccgga agcgcaagga gatcgtcgaa cgtgctgcgc aactggacat cgtggtcacc 180

aacaagcttg ccaggcttcg cagccaggag gacgagtgaa atggccatta tttccggttg 240

tgatccgctg gtgtgcaaga tgttgctgag atccgagatt cattctctgc cattttttta 300

tgcttatgtt agacttttcc aatggacaaa attct 335

<210> 37401
<211> 340
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-C12

<400> 37401

cccacgcgtc cgaaggaatt aagcgatggt gcctgcgccg ggaggcccgg gacggagagg 60

gagatgcatg ctgctgcttc tgggggctct cgccctcgca ttgcccggcg ctgcgactgc 120

gaccgcgtgg cctcaccctc acggcggcgc cgccgncccc gccgcgggtg cgggcaggcc 180

gggcggcgcc gagcgctggt acagggatct cgcactcagg aggatggaga gcgtcagatc 240

ctccttcggg gccagaagag atttggcgac ggcttccgcg agcgcgcggg tgtaccacgt 300

gacggactac ggcgcggacc ccgaccgcgc cgncgacgcc 340

<210> 37402
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A8

<400> 37402

gagatgcctg atgtgccaac cataaccctg acatttgctg cggacaagag cttgcaagct 60

gttaatccta tcttgccatt taatgacaaa caggggcac ttgccgggtt ctgcttagct 120

gtgctgccat caacagaacc cattggaatt attgcccaga atttcctggt tggataccat 180

gttgttttcg acagagaaag catgaagctg ggctggtacc gctccgaatg taagccatat 240

ccatctgcca tggaaataga ccaaattcta ccattcacct ggtactccgg aagtgctaaa 300

catgtggtac cgtccattcc ttgcgagcac aggccacgac gttgaggaca gcacga 356

<210> 37403
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C2

<400> 37403

cggacgcgtg ggaaaaagaa tcaaaaattt cagtttaaag aaaagaaaag aaaaaaagag 60

gaaagggcta agccgaatga atggaaaagg taaaaaaaaa aaaaaaaaag gcgggtctac 120

ttaaaggtgc caccttacg gtcatgataa tgcaacgaat taccttttg ctactggtcc 180

tgaaaaataa tggagtctgt ctataatctc aactacatgg ttggtaaaac cttgccgtga 240

aacaattatc tgggctactg ttaattacat atttttgagg cta 283

<210> 37404
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H11

<400> 37404

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtacgcc cacgcgttgg 60

gggacgcgtg cgaggacgcg tattccgttg cggagaccga ttcgtt 106

<210> 37405
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-H12

<400> 37405

cccacgcgta cgcccacgcg tccgcggatt tttaaccagt tcagagtacg gatctgagct 60

gcagaggtcg ccctcaccgt ctactgagcc gttacagagg tcgtggacaa gggagcagag 120

ccctagggcc gctggcttcg acttcttcct gagcaatagg agcaatgact cgccacctgt 180

ctacaggaag gaacccgatg acgcggcatc gcagtccgag tctgacgcga agtctgcaga 240

cggtgaggat gatggcatcg cctacacgct gcaccagaga gttcttgagc tagaggacga 300

gctcaatgcg acaaaccaga aactacaaga tgcagacgag aagcttgagg ttctggagga 360

aaagagcttg angtgccatt gcgattataa agagaatgga aactgagctc agcgaactac 420

agaagtttc 429

<210> 37406
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H2

<400> 37406

cccaacaacg tcaagtccag tgtttgtgat atccctccgc gtggcctctc catggcctcc 60

accttcattg gcaactccac gtccatccag gagatgttcc gccgtgtgag cgagcagttc 120

actgctatgt tcaggaggaa ggctttcttg cattggtaca ctggtgaggg catggatgag 180

atggagttca ccgaagctga gagcaacatg aacgatctgg tgtccgagta ccagcagtac 240

caggatgcca ctgctgatga ggaggcggaa tacgaggacg aggaggccat ccaagacgag 300

taagggtggt ttgggccctg ccacatttgt acccttggtt cctttcattc cggggcttgc 360

ctatggtttg cctggtgtat ttgctcaagt tatgccgtat gtagtagtac ttttcgtg 418

<210> 37407
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H3

<400> 37407

atcaaggttt ctggccgaaa aagcttatgg aaggttgctc ctggtgacgc tgagaggctt 60

tcagcttttg aggttggaga ttgggtccgc ccaaaaccaa gtattgggag cagacctact 120

tatgactgga atagtgttgg gagaataaac attgcagtag tccatagcat tcaggactct 180

ggttacttgg agttagctgg ctgtttcagg aatgggaagt ggctaaccca taacacagac 240

attgagaaag tgcagacatt aaaaattggt cagcatgttc ggttccgtgc tggaatttca 300

gagcctagat ggggatggag agatgcgaac cctgattcta gaggcatcat cgctggtgta 360

catgctgatg gagaagt 377

<210> 37408
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H4

<400> 37408

cccacgcgtc cgcccacgcg tccgcgttgc gtcttgaaag gggagagaga gagagagaag 60

agagagagaa gagagagaga gagagaggag tgggagaccc gcgagaggct gccgtgtagg 120

gaccgtagac tcagcgactg cgaaggaggg ataaggggat ggccgggatc ggaccgatca 180

ggcaggactg ggagccggtc gttgtgcgga agaaggcacc caccgtcgcc gccaagaagg 240

atgagaaggc cgtcaacgcc gcgcgccgcg ccggtgcgga gatcgatacc atgaagaagt 300

acaacgctgg tacgaacaag gcggcattca gcggtacatt cctcaacacc aagcgcctcg 360

acgacgacac cgaaaacctt ggccatgaac gagttc 396

<210> 37409
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H6

<400> 37409

ctctctttct ctctctattc tttccatccc cgcttctggg aagctcatca gccatggacg 60

acgcctcggg agagggagaa gcttcgatgt tcgagaccag ccatgtcctt ggcgccctgc 120

tggccttctc ggcgatgctg gcgtccggct gggaccggtg tacgaccggc acaagcgcgg 180

cgcccgggtt cgtgcccgga aa 202

<210> 37410
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H8

<400> 37410

cagcatctgc caaaagttcc cctatttggt caaaaagaaa ttaaaggaag gggaggaggt 60

tagacgagtt gctcaacttg aatggaagat aattgagagt gatattcaga aaccattcac 120

aacttcaggg ctagagtttg ttcccttgcc ggtgatccat ggtgaagact acatttgttt 180

gggtttcctt ttcggaagga aatcaaaagt tgcttacata tcagatgttt cacggtttcc 240

cccaagcaca gaatatgcaa tttcaaaatc tggaggaagg caacttgatt tgctcatctt 300

ggattgccta tacaggacgg gttctcacaa tgtgcacttg tgttgggacc agacactaga 360

tgctgttagg aggaattgcc ccaaaagagc acttgctatt gggatgaccc acgagatgga 420

tcatcacaag gacaa 435

<210> 37411
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H9

<400> 37411

cccacgcgtc cgcaccgctc tgcctcgcct cgcctcacct cacctcacct cgccgactag 60

ggttttgtac cgccgtggat ctcgccgtcc ccgccatgga cgtctcgcac gcgggatcct 120

ccgtcgccgg cgaggctccg acgaccgggg agcaccggat ggggactacc atcgtcgggg 180

tctgctacga gggcggcgtc gtcctgggcg ccgattccag gaccagcact ggagtgtatg 240

tagccaaccg tgcttcatac aagattactc agctgacaga caatgtgtat gtctgtcgct 300

ctggatctgc tgctgataca caagtcattt cggattatgt acgctattt 349

<210> 37412
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A1

<400> 37412

tccacgcgtc cggattgagt ggctcacctt ctttcccagc cagcacgagc ttgcaagcaa 60

gcgagctcct gagatttcag ctcgcttctc ctccagaggt cgagcagacc agactcctcc 120

gaccgaagct ctaccacttg ccagttagcc tgtccaggaa ctgcttggcc ggagatccaa 180

acaaacctct gtgttggggt tctccggggt tccttgcgct ggagggaggt ttcgatctcg 240

ctggccatgg tttggctgag aagcagcagc ggcagcatct tgatgccaaa tctctgagct 300

ttatgaagat 310

<210> 37413
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A10

<400> 37413

acgaaatact cagatgttat attacatagc gtgtttaacc tcatgacgtg caccacaatc 60

tagtggccgc tgtccgtatg cctagtgata agcaccgcca caacctagac gctaaggtga 120

tagacagcac aatggacagc agtgtatgct acatctacgt gcagagctac ctatattgcc 180

aatgcgttgt ctgacggtga acagctcttt acctatacta catatgagct agtcatgctt 240

acacaggtta ccagagactg catgccatgt actattggag agatacgtca attttagggt 300

<210> 37414
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A11

<400> 37414

acgcccacgc gtccgcccac gcgtccgccc actcgttcgc ccacgcgtcc gggctgttgt 60

ggctgaggtc ccggtgaccg aggtgccagc ggaggtcccg gcggcccagg tggccgaggc 120

gcccaaggcg aagaaggcgc ccaaggagaa gaaggcgcct aaggagaaga agctttccgc 180

ggcgaagaag ccggcggcgc accctcccta cgctgagatg attgtagagg cgatcgctgc 240

cctcaaggag aggaaggggt cgagctcggt ggccatcagc aagtacgtcg aggggaagca 300

tggcggcaag ctccccacca acttccgcaa gcagctcact gt 342

<210> 37415
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A12

<400> 37415

gaattcggca gacccacgcg ttcggggtaa tataacgcga cgcgttattt taaaactccg 60

cagaacattg ctacgcgaga ccttatcgtc gccatgcctt ctaagggaca gggctggtac 120

cctatcacca acgtgtggca caggggttaa cctgccatag atgaccacta tgcccatgga 180

ccgaaggg 188

<210> 37416
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-A2

<400> 37416

cacacaacta gggcgaccgc cgccgaccta cggccagctg tgcccatgtc ttcgtcgggc 60

ccctttgctg gcgacgggaa cccaccacac cggccgccaa cctgaggttt tgtgggctca 120

gcgctccgag aagattttct tgactatctc attgccagat gcgaaagatg ttgtgttaaa 180

gaccgatcct aagggcctct ttaacttctc tgctgttgtc catggggaac cttttagctt 240

cactttggag ctttttgatt caatactgtc agagggaagt aaaacgaaga caaagatggg 300

cctgcgaaac ataatctgct caatccagaa agaaaagaaa ggttggtgga agcgcttgct 360

taagtcagag gaaaagcatn catacatcaa agttgactgg aacanatggt gc 412

<210> 37417
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-A3

<400> 37417

tttctccaga aaatgttaaa tatgctgcca tgcttggtct gtcagcagca gcaatgaagt 60

ctaagctctt tgccgatcaa gaagaacgcg aagtgcaaag actaactgct actgtaataa 120

atcatcagtt gaagagattg gagttgaagc tgaagcagtt tgcggaagtt gagaccttgc 180

tcttgaagga atgtgagcaa gtagaaaggg ttagacacag gatttcagct gaacgcgtca 240

ggatgaggtc agccctatta ggtcccaccg gaagcggtct accaggggc agttgtagca 300

ctatgccatc aaatccagca ggcatgagcc ccagaccagt cggtgtgcca ggctacatgc 360

cacagaccag catgccagcc acatatgcca acaacctgca ggggcatggg aatnctcaga 420

tgccgttctt aca 433

<210> 37418
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A4

<400> 37418

cacagttcta tgaccattcg tgccccaagg cgattgagat tgtgcagtcc attgtggcac 60

aggctgtggc caaggagacc aggatggcgg catctttagt cagactgcat ttccatgact 120

gctttgtcaa gggctgcgat gcttcggtgc tgttggacaa cagcagcagc atagttagtg 180

agaaagggtc caacccgaac aggaactccc tcaggggttt gaggtgatc gaccagatta 240

aggctgctct tgaggctgcc tgcccaggca cagtctcctg tgccgacatt gttgcccttg 300

ctgctcgtga ttccaccgcc ctggttggtg gaccatactg ggacgtgcca cttggccgga 360

gagactcggt cggtgcatgc attcaggg 388

<210> 37419
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A5

<400> 37419

gccacgcgtt cgcccacgcg tccgttccat gcgagccagc acgagctggc atgcgcgcga 60

gctcctgaga tttcagctcg cttctcctcc agaggtcaga gcagaccata ctactacgac 120

cgaagctcgt ccacttccca gtgagcctgt ccaggaactg actggccgga catccaaacg 180

cacgtctgtg caggggtgct ccggagcacc ttgcgctcga cggaggtttc cgtcttaatg 240

gccatgggga gactgctaag gaccatgggc ggcatcctga tgccaaatct ctgagcttta 300

tgaacatagc cactcacatg tg 322

<210> 37420
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-H10

<400> 37420

cccacgcgtc cgcccacgcg tccggggaaa gggaacggga gcgggagggg aatccaattg 60

cgatggcctc cgactcgggc gatttcggtg gggagaacaa gtcgttggaa acggcgaggc 120

ggctgctgga ggagaccttc acgagtgagg cagaggcgga ggcgctaccg agcttgccct 180

tcgggttcta cgacgccttc gtcctgaggg gaatccgcgt cgtccaggcc cttcagcccg 240

gcacactcct ctgccacttc aacgtgccct tcagactact caactcgggc ggcttcctgc 300

acggcggcgc aaccgncttc ctcgtggatc tgngtgcctn cgncgncttc gccactgccc 360

ggctacgcac caggggcttc acccccttgag atgaacatct cctaccttga tgctgctttt 420

gctgatga 428

<210> 37421
<211> 190
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-A6

<400> 37421

cccacgcgtc cgcccacgcg tccgttcatt ctncgcgcac acacacaaga cgggggggggg 60

ttacacaaaa gaaaggcagc gccaatatca acaacaacac atccctcacc acatcagaga 120

tatgcaaaga ctaaccaaac tataatacta acacacacga ctaatgccat cacaaagacc 180

taaccttaca 190

<210> 37422
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A7

<400> 37422

cccacgcgtg cgcccacgcg tccgttcctt tcgttcgttg actgaaagaa ttacgcgtta 60

gattacacat atgtgagtca acgccactag agagcacaac ggccgcctac caataggata 120

caagcatgtc aaaaccaatg tgattggaac aggctacaga ctattgggta cacaatatgc 180

ttgtttttta catatatgcc tagaaacatc atgtggacgc cgtattatgc cgccttaacc 240

aggtcatgga gacgccttag gccctgttcg tttatcctga aattcctccc gagaatcgtt 300

ccaactgatc aaagcttata taaattagtg aagaaatccg acccagattc attccagaac 360

gaccattccc ggggaaccga acatgcccat tcccggggaa ccgaacatgc cctaaact 418

<210> 37423
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-F4

<400> 37423

cggacgcgtg ggcggacgcg tggggaaagg tttcaggaga aactggcgtg cacagaatca 60

gcagttgctg aagccaacca cgctgtgcag gaggcaaagg ccgagaagga gaggcttcaa 120

gagaagcttg cacacacgga atcagaggtt gctgtggcca acatggctgc acatgaatct 180

aagattgagt tcgacaggct tcaagagaaa cttacataca cagagttggt ggttgctgaa 240

gccaacaagg ctgtgcagga ggcaaaggct gagagttcgc atctgaagga gcggttactt 300

gacaaagaga atgcattgca gagcataacc cangagaatg atgaattcaa gatgcgagaa 360

gctgacgcca tgaagaaaat agacgagct 389

<210> 37424
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-F5

<400> 37424

catcacgagc atatcattca agggaatcca tgggcagggt gttcgggtgc ctgtccgagc 60

tcatggcagc gacgtcatcc ccatcaagga catcagcttc caggacatgt cggtaggcat 120

cagctacaag aagaagcaca tcttccagtg ctcctacctt gaggggcgtg tcgtcaggcc 180

cgtgttcccg aaaccatgtg agaacctgga cgtctatgat gagcaagggc agcttgtgaa 240

gcgggcagtg gccctgaaca gcacagaact tgactacgat atatgaggtg cacatatcat 300

accacagctt tgatagttgt agtggaaatt ggtgctctct accctcagaa atcaattntc 360

tccgattgtc catggctntt tgggtctaga attgtagata gagaagagat tctcctcttg 420

at 422

<210> 37425
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F6

<400> 37425

tcgcccacgc gtccgcccac gcgtccgcgg acgcgtgggc agcagagaga ttactacgat 60

ccaacagttc tagagcaaga gagaggaaga cacactcgag agttagcagg ctaataactt 120

gcatgagcag caggaatggc tgcgacgcgt tgtctctctt gctttctcct cgccgtgctt 180

ctggcaggag tggcctgtgt caccgacttt gacgaagcgg ctgctgccgg cttcgggctt 240

ggccacggcg cgcgtttcgc gcgcaagcat ggacttgctg ccgatgagat gccccagccg 300

gagccacaac ctataactaa accggagccc catat 335

<210> 37426
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F7

<400> 37426

cggacgcgtg ggagcagctg aagtttgtaa acatgctaaa gaatcagctg gtggaccaaa 60

accagaagcc tgcttaaata aatgccagta ccagagtggg cgattcctta agagaaggat 120

acccattatg atggtatgaa tgagttgccg tatgtggcgt tatcttgtag taactagccg 180

tctgtgaaca tgtgagaact atgttgttct agcctgttaa acgaaatgat ctgtactgtc 240

ttctataggg tcttggtaca caagagttgt acaacataag atctgtctgt gcagtccagg 300

gagcagcgtg tcgctactgc tgtaatcgcc ggcaaacgat cctgtgatcc tgcgccaaag 360

tttgtttctt ggt 373

<210> 37427
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F9

<400> 37427

cccacgcata cgaaaaaaaa aaaataaatt ttaaaaaaaa aaaaaaaaaa aaaaagaaag 60

tgtaaatttt aataataaat aaataaatat attaaaataa aaaattatta attttttaaa 120

atagatataa aataatatat ttaaaaaaat aaaattatat atataatata ttttaaatat 180

atattttaaa attaatttta tt 202

<210> 37428
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G1

<400> 37428

acgcgagact cgcagctagc tgacacggcc gagaagcagc ttgcattgca ggcgtattac 60

ggacccagca gcagctagca ctagcagtcc atcggagcga cgatggtgag aaggactgtg 120

ctggcggcgc tgctggtggc cgccgaactc gtcggcggcg cgcgggcgca gctcaaggag 180

gggttctacg actacttctg gccacatgcg gagaagatcg tcaaggacta cgtgaaagcg 240

cacatgcccc acgcgcccga cg 262

<210> 37429
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G10

<400> 37429

ccaacgaaaa gtgcacgcac acgcgcatcc cggcagtcag tagcgcagct gcctctcctc 60

tctttggccc ccggagccgg agcaagagcg ccgccaacag cccgctaccg gcgccgtgtc 120

atggcggggc caggagacaa ggtggactac gtcttcaagg tggtgctgat cggcgactcg 180

gcggttggca agtcgcagat cctcgcgcgc ttcgcccgca acgagttcag cctcgactcc 240

aaggccacca tcggcgtcga gttccagacc cgcaccctcg tcatcgacca caggagcgtc 300

aaggcccaga tctgggacac c 321

<210> 37430
<211> 414

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G11

<400> 37430

caaaaccatc agatctagca gaactctctc gacctcatcg gcgttggcgg agcgcgtgtt 60

gaccggagat ggcgccgagc gggtggagga ggagcgcggc ggcgcgggtc gcctggcgcc 120

cggccacggt ttgcctgtgg ctcgcgctgg ccgccgccga actgacgctg gcccagttgc 180

tcgtcaacct cgctaagaag gacctgacgg aggttaccca caaggtctac ttcgacatcg 240

agatcgacgg caagcccgca ggccggattg tcatggggct ttttgggaag actgttccta 300

agacggcaga gaacttccga gctctttgca caggagagaa aggggttggc aagagtggca 360

aagcccttca ctacaaggga agtaagttcc acagaatcat ccccagcttc atgc 414

<210> 37431
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G12

<400> 37431

cggacgcgtg ggcgggtttt gggttgtctt ccttcccagt tttgttttac cagtggagac 60

acggagattg gaggacagaa gggcgcagca caggactaca gcgaggtggg aaggccagat 120

caagcaggag acaacaagag gatgtgataa atggtgatct ctgcgagcag tatccctccc 180

tcccagctga tatgtagagg aagattgctg atcatctgga tagaacttcg acgcctgcag 240

cactgcttgg tgaggattgc caaggaggaa gactagaaca gacaagagca gcgctaatca 300

gtgacagagc atgatgccat ccagatggga caagataagg catgttatgg tgttctctgg 360

tttctcatcg agaatagctc tttctctttc gtcaagggtt tcaccaatgg cttgtaacaa 420

ctggatgtaa aacatttttg gtttttaatc ga 452

<210> 37432
<211> 54
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G2

<400> 37432

cggacgcgtg ggcacaagtt gggttctgaa tggcattgac tgtgtttgct gatc 54

<210> 37433
<211> 110
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G3

<400> 37433

ccaaaaaaaa aaaaaaaaaa aaaaaaacat aaaaaaaaaa atgaaacaaa aaaatgaaga 60

ggccagagaa aattataaaa aaaggaaaaa aataacatag agacagtgga 110

<210> 37434
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G4

<400> 37434

acggcccaaa gatcttccca cagaaaaagg ctgggttgct gacgccgctg aggaacctgc 60

tgggcctggt gcggggcccc aagtacgacg gcgtgttcct gcacgacaag atcaagagcc 120

tgacgcacga cgtcagggtg gcggacacgg tgaccaacgt catcgtgccg gcgttcgacg 180

tcaagtacct gcagcccatc atcttctcga cgtacgaggc caagaccgac gccctcaaga 240

acgcgcacct ctccgacatc tgcatcagca cgtcggcggc gcccacctac ttcccggcgc 300

acttcttcaa gaccgaagcc accgacggcc ggcccccccg cgagtaccac ctcgtggacg 360

gcggcgtcgc gggcaaacac cccaccatgg tcgccatgtc catgctca 408

<210> 37435
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G5

<400> 37435

ggggaagaga gagagagaga cggaaagggg gagatgagcc ggagcctggg gatcccggtg 60

aagttgctcc atgaggcagc gggtcacgtg gtgacggtgg agctcaagac cggcgaagtg 120

taccgggggt ccatggtcga gtgcgaagat aactggaatt gccagctcga gaacattacc 180

ttcaccgtca aggatgggaa ggtttcgcag ctggagcacg tcttcatcag aggaagcaga 240

gtgagattta tgattatacc tgatatgctc aagaacgctt ccatgttcaa gcgcttggaa 300

gcgagaatta agggcaaagg atcagctatt ggagttgggc gtggacgtgc aagtgcaatg 360

cgtgctcggg ctgcttctgg tcgtggtggt ggtccttgtt gggccatggc aacgcgcctt 420

ctgtgaggag gtaggattt 439

<210> 37436
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G6

<400> 37436

ctagttgatg ttgttgaggg aaaagtaatg gaagtattca aggaggatca agctgtggag 60

gttatcaagt tcaatccaag caaccccgat ctcttcctat ctggtgggtc caagggttcc 120

cttaaactct gggatattcg atgtggtctg gtaacaaaag aatttcagag aagccttgga 180

accatccttg acattgactt cagtgctgat ggaagacaat ttatctcttc aactgacaca 240

accagaagca atattagtga gaacactata attgtttggg atgtcctgcg acaagttcct 300

ttatctaacc aggtttatac cgaagcattc acatgcccgt gtgtaaggta ccacccacgt 360

gaagcatcat ttgttgcaca gtccaatggg aactacattg ctatgttttc agcaaggcca 420

ccctttaagc tgaac 435

<210> 37437
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G7

<400> 37437

atccaggcta gccacgtcga ggtcggcatc cgcggcaacc cgccatacct caaccatgac 60

ctgacacacc cagtgaagac tgactcgtcg ttctggacaa tagaagacgg tgagatgcat 120

ataacactgc aaaaaaagag agaaggggaa aacatggtca tctccaatac aagggcaagg 180

gattttggat ccatatgctg cagatcaaga gcaaaagcgg cttatgctcc aaaggtttca 240

ggaagagaac cctgggttcg acttttcaca ggctcagttc agtggaacct ggcctgaccc 300

aagaaccttc atgggaggga tacgctccga gtgaagcacc ctacctgcct atgtacgttt 360

ctactatatc ctcggcatct tgatagatgc agcaggcgtg cttattatgg ctgaaaat 418

<210> 37438
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F3

<400> 37438

gaaggtcccg gcgctctcat ccggtgaaaa taaagagggg aaacggacag gagccgcctg 60

aaatggacag cggaagcgat tccgacggcg ctcccgagga gctcactgct gtgcagggtg 120

ttgcgaagca cgaagagacc agtaaagtcg agaaagacag tgttctcaga gtaacacggg 180

aaggaaagga acggaggaaa cgttgggccc aacgaagaac atcctctaaa ccagataaga 240

aggcgccaaa ggaagtagaa gatgaagata ctaaaaaaag tgaggagcat gaggagacaa 300

atactatgcc tggcatgctc cccactagtg taattgaaat tctagcagct cgtgagaagc 360

aaaccttcgc atcagattcc gaggaagaaa atgtaaagca gaatgtccag aggagaaaga 420

agagaatgga aactg 435

<210> 37439
<211> 314
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-G8

<400> 37439

acgcaggttc ttctacctgc aagagaggat ttgttcagtt ctgctacgag ccaatcaagc 60

ggatcatcaa aacctgcatg aatgaccaaa aggagaaatt gtggtccatg ttgcaaaagc 120

ttaatgttac catgaaggct gatgagaagg agttgattgg caaagctttg atgaagcgtg 180

ttatgcaaac gtggctacca gccagcactg cacttcttga gatgatgata ttccacctta 240

cttacnccgc aaaggctcaa aagtatcgtg tggagaactt gtatgaggga ccccttgatg 300

atggttatgc aact 314

<210> 37440
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G9

<400> 37440

ctggatctgc tgcgacttat gcgagacatg gttccacggc aagtgtgtca agatcacccc 60

aaataaagcg gagcacatta agcagtataa gtgcccctcg tgcacaggaa gcaagaaggg 120

ccaaggctgg atccaatcaa tcaacaagtt agatttgaat ggcggccaat gttccaggaa 180

cggaggagcc tttaacaaag agtggagaat gaattttccg ggtgg 225

<210> 37441
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-H1

<400> 37441

gttntgcttg atggcacctg gagcaattct gctgcactgt acagaaggtt gaaggagaga 60

tggactgcag tatggggaga tgaagctcta ccttgtattg cactatctac acttagtgcc 120

tcagtgatgc ataaactacg accgcagcct gcctgggatc gtacctgcac tgcagcagct 180

gcagctggcc tcctctggga gttgagctcg cggcctgagc tcatctcatt tgggttggaa 240

aagcaagccg aagcggtgga atgctcgtta gacaacttgc tggatgctct cactgccagg 300

cggcttcgtc tgggccgatc gataactcgg aaacagagac ataataagaa ctgcatatag 360

ggaaagaaga aactcacagt aacagaggag catggtgtgc caatcagtgg aaagctgatt 420

tcattc 426

<210> 37442
<211> 359

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-E10

<400> 37442

cggacgcgtg ggcgggaacg cagaggcggg ggcaacaaga aggccgggcg agaagacaag 60

aggaagccaa aaggagaacg agttcggaag ggagcggatg gcaatggctc tgctccagct 120

attgctgtcg ctcctcatcg tctcctgcgc cgcgcagtcg ccgtacgcgt cgaaggctcc 180

tccgctcagc gcctcggcgc cgggggggctc tgtcgcgcca ccgacaacgg cggtctcggc 240

gccgcaggcg tctgcacagc cgccgacaac agtcgccgcg tctgggcctc aggcctcggc 300

cgtagcacca acaaaagcag ccttggcgcc acaggcctct gctgcgccgn caactacag 359

<210> 37443
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E11

<400> 37443

gttggcttct cctccccctc cggttcgggt tcgggttcgt gaggttctcc ggggttcggt 60

ttcgtgggtg agcggatcga gatggcggcg tcggatgttg agtaccgctg cttcgtcggc 120

ggcctcgcct gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180

gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240

gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300

ctggacggcc gcaacatcac cgtcaacgag gcccagtccc gcggcggccg tggaggcggc 360

ggcggcggcg ggtacggtgg tggccgtgga ggcggcggct acggcggtgg cgggcgccgt 420

gatggcggcg gcggctacgg cggtgg 446

<210> 37444
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E12

<400> 37444

cacgctcgtt cttctataaa aggctacgga ggaggatcgc agaagatgtt cttgcaaaag 60

aaataaggca gatagtcggt gataaattta cgcaccaatt agcaatggag ctcatcaagg 120

aatggtacct tgcttctcag gccacaacag gaagcactgg atgggatgac gatgatgctt 180

ttgttgcctg gaaggacagt cctgaaaact acaaggggca tatccaaaag cttagggctc 240

aaaaagtgtc tcattcgctc tctgatcttg ctgactccag ttcagatctg caagcattct 300

cgcagggtct ttctacgcta ttagataaga tggatccctc tcagagagcg aagtttgttc 360

aggaagtcaa gaaagtcctt gattgatgat accaacacat ccaacacaat gtgtgcatgt 420

cacatctttt tggtctagta catacat 447

<210> 37445
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-E2

<400> 37445

ccgtccgcgt gaccgccgtg ggctnacgcc accanctcga gtaccctcca tcttcccttc 60

tcaaggtacc gaaagttccg naatctgttc gagtacctcn gnntcgccgc ccgtctggtt 120

ttggcccccc ttttccacag ccccgtcgct tgtctgtcag cagggtacct cnnccagagc 180

tcttcatnnc tccatttcnn cacggctcag ggtgaatcca actggagttc catttcnnca 240

cgctgnngcc tctattggcg ttcgttctcc ttccaccaga aaaggatgcn naccgccaga 300

aattgggagt ccccccagaa cctggattga ccaagctctt gattgggccc tcgccggaaa 360

atgggagtcc ccccaaggcg ccaactcaac cttaatccct tctcaacgag ataagttgtc 420

gacantcaat gg 432

<210> 37446
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E3

<400> 37446

cccacgcgtc cgatcagcag tttatattgt gttttgtacg tattaaaaat gcaagaatca 60

tagcaaaacg agcaaaattt gaatccatca gctgtttata ttgtaataaa gtatgacaag 120

ctctctgaaa aaaaaatcag ttgcgtaatc tgtccaatgt tgcatttgag ctattgcgct 180

agttaatcct tttattttcg gtatgacttg cagtgcctct agagatggag attctatgct 240

aagggtttag gagctgcatg gtggatggta cattgtgctt tctgcgccgt gcttcctgaa 300

agtctatctg aagttagttt aaagtatggt ttatgcaagt gttcccgata tttcccacga 360

tggattcgag ccttgtgctg aacttgtgct agcctagcct gttataagat ctatggtaac 420

gatgactgca atttatcta 439

<210> 37447
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E5

<400> 37447

atcatggttg accacatgag gaagatgaag aacaatgcca ttgtctgcaa cattggccac 60

tttgacaatg aaattgatat gctcggcctt gagacctacc ctggcgtcaa gcgcatcacc 120

atcaagcccc agactgaccg ctgggtgttc cccgagacca acactggcat cattgtcctt 180

gctgagggtc gcctgatgaa ccttgggtgt gctactggcc atcctagctt tgtcatgtcc 240

tgctcattca ctaaccaggt cattgcccaa cttgaactgt ggaaggagaa gagctctggc 300

aagtatgaga agaaggtgta tgtgctcccc aagcaccttg atgaga 346

<210> 37448
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-E6

<400> 37448

cacgacttcc gtccgagtct gagctcatct ccacgcgccg ccgccgccgc tcgacgccca 60

ccgcgcagcc atggcggaac agactgagaa ggctttcctc aagcagccta aggtgttcct 120

cagctcaaag aaatctggca agggtaagaa gccaggcaag ggtggcaatc gattttggaa 180

gagcattggc cttggtttca agactcccag ggaagcaatt gaagggacct acattgacaa 240

gaaatgtcca ttcactggaa ccgtttctat cagaggcaga attattgctg gaacatgcca 300

cagtgctaag atgaacagaa ccatcattgt tcgcaggaac tatctccact ttgttaagaa 360

ataccagagg tatgaaaaga ggcactccaa cattccagct cacatcntcc catgcttncg 420

tgtgaaggag gcgaccatgt catc 444

<210> 37449
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E7

<400> 37449

ctcggatccg aattgccagc gcaccagtcg agctcgcggg aactcgccgg caccggcgat 60

ggcctccgcc ctactggccg gacagggcgg ggcgcgccac cacggctggg gggagacgcg 120

cgccccactc gcgcccatac ctcccaaccc taaccccagc cagccccacc cgcgcgccga 180

cgggtccaag tccaagccgc gggcggcagc ctcctcgccg gcggccggat acgtgacgtt 240

ccgcccggcg tccctgggcc cgcgcgaggc ccgcgcgctc cgggaccgcc tcgcggggga 300

gctcacccag gtgcgcgccc tcctctcccg catcgacacc tggcagcagc agggcccgcc 360

gcccgcgggg ctccgcggcg aggtgcggaa gcggtgcggg cagatcctta ccaggctgcg 420

caaggacaaa gcgagcgtgt ggttcaacgg cgccg 455

<210> 37450
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E8

<400> 37450

cggacgcgtg ggtccgcgac cagcgaggag tgcactgtcg cttggggtgt ctgggatcat 60

gcttttcact tccactgcat cagcaggtgg cttaagactc gccaagtgtg cccattagat 120

aacagggagt gggagttcca gaaatatggc cactagttcc tgggcaccgt catgtggtgt 180

tgggactttg ctgccactca agtgtttttg tctgccaaac agctccatct cttactgctt 240

tcgatgcttg catctatcac ccgtcaatta taactagcta gcagtacgta cacctgggac 300

tgtatttgga ctatccattg agaggatagt aggcccattt tatcaatggg atgtggatct 360

tcataagtga gc 372

<210> 37451
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E9

<400> 37451

aatctatgcg cagggctgag ctgactcagt ttcaaaagca agttgaggag caatatctct 60

caaatgtgga gaggcaattg gagaggatcc agaatgcccg gaacgctcgg aaggcgaacg 120

ggcctggtaa catgcaagaa atggacaagg agctggacac ccacagggcg gagcatggtc 180

caaagcctcg gcgagttccc gaggagggcg gcaatgatga cgacgaagat gcagatgaca 240

tggctgtgga agacgagctg atggatgaag ttttgggcat caacgatgga atcaatgagg 300

acccatccaa gccgtccgaa gaagctacta ctgaaggtca gccagcaccc gaggaagcac 360

aataggattc tttgttcaca caaggtaagc gtaccattcc ggcattccgt atgcttagtt 420

gccgtcttgt tgggtgctgc ctgtg 445

<210> 37452
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F1

<400> 37452

cccacgcgtc cgctccgctg ggccaccagc tttgaccgcc gcctcccttc ccctccgcga 60

ctgctcctcc tcaccccact cccccgcagg agcggcggcg gcggcggcga ggtcgtaccc 120

cacatcggcg agcggcggcg gcaccgccgg aggcaaaggc aagatgttcg ggcgcgcgcc 180

gaagaagagc gacaacacca agtactacga gatcctcggg gtgcccaagt cggcgtccca 240

ggacgatctc aagaaggcct accgcaaggc tgctatcaag aaccaccccg acaagggcgg 300

tgaccccgag aagttcaagg agctcgcaca agcctatgag gttttgagtg atccagagaa 360

acgtgagatt tatgatcagt atggtga 387

<210> 37453
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F10

<400> 37453

aaacacacat ttggaagcac caaggagaag aaagcacggg ttcagcgaat ttttgctgcg 60

ggaaagtcac tgcttaactt tgttcagatt gatcagttga gaatttattt tgattcatca 120

tcgaagaagt ttgttatggc caagaaccct cctgtttcta aaactaacac ccctcttcac 180

gaatctcctg atgcacttaa aacaagtggc actgaaatgg attatgaggc tgctagaaga 240

tttgattcag tttcttctaa tatgggcaca ctgcagtcta aagtgcagtt ttgtcctgat 300

ggtgacgatg atgaagaaat tgttttcaag ccaacagctt ccgaaaagtt tccgaaagct 360

ccttcagatc tgttggttaa tggatacact catcctgtac ctatgtctac t 411

<210> 37454
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F11

<400> 37454

tgatccagca catgcagata aagtgaaaaa taccttcata ttcaacacat ttgttctctg 60

ccaggtgttc aacgaattca attcgcgtaa accagatgag ctgaatatat tcaagggcat 120

ttcagggaac catctgttta ttggcatcat agctataaca gttgtactcc aggcgcttat 180

agttgagttc cttggcaagt ttgcctcaac ggtaaggcta agttggcagc tgtggttggt 240

atctataggt cttgctttct tcggctggcc gctggcattc gtggggaagc ttattcctgt 300

tcctaaacgt ccattgggag aattctttgc atgctgctgt atctgcaaag ggagcaaaca 360

agcccctgac gacgcaacct ctaatga 387

<210> 37455

<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F2

<400> 37455

cccacgcgtc cgcgaaaaac tctccgtcag aggataaaga agaatcagaa aagcatatgg 60

aggaactatg ctccaaaatc aaggtgggtg atagatgtga agttgagcct ggtgccaaga 120

ggggcactgt aaaatttgtt ggtagagctg aagcccttgg acgtggattc tgggttggag 180

tgcaatatga tgagccactt gggaagcatg acggcatggt gaaaggcatt cgcttctttg 240

agtgccctca aagtcatggg gcaattgtga agccagagaa aagtaaagtt ggcgactttc 300

cggagagaga cccatttgaa gacgaggacg atgacgagat ttgagtgcgt gtgcgtttgg 360

aaa 363

<210> 37456
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E1

<400> 37456

ggccaatccc gagcagtggt gcgaaacctc gagcgctcgc gccggtgacc ataacaaaga 60

ggaagccgcg gtagcactgg tagcggcagc agtaaggggg agatgtcgtc ggcgttcagc 120

ggcgatgaga ccgccccttt cttcggcttc cttggcgcct ccgctgcgct cgtcttctca 180

tgcatggggg cggcgtacgg gacagccaag agtggcgtcg gcgtggcgtc catgggtgtc 240

atgcgcccag agctcgtcat gaagtccatc gtgcccgtgg tcatggctgg tgtgctcggt 300

atctacggcc tcatcatcgc cgtcatcatc agcactggga tcaaccccaa ggccaagcca 360

tacta 365

<210> 37457
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C4

<400> 37457

cggacgcgtg ggtcctcccc gagcgccgcg tcgtcgcctc ctctgatccg tcgcctcccc 60

gagatctgct ctcgtccttc cgggggcttg cggcggaggt ctggacgtac atccgggtcg 120

tcgagcgctc cgggctcgag ggctcggatg agtcggagta ctcctcggat gaggatgact 180

cggacggcgg cagcaaggac gaggacgacg acgacgaaag cggtggcggc ggtgacggtg 240

acggcagcgg caggggcggc agcggcggca gcaaggatgg tgacggcggc tgcagcaggg 300

gcggcaacgg cggtggtggc agcagcagag gtagcaccag gggcg 345

<210> 37458
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C6

<400> 37458

acgcccacgc gtccgaaaaa aaaaataaaa aaaaaaaaaa aaaaaaaaaa aaactagttc 60

tagatcgcga 70

<210> 37459
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C8

<400> 37459

gaattgccgg gtccgaccac gcgtacgccc acgcgtccgc tcaaggctga ccccaagaag 60

taccgcaaga tgaaggagag gcttgtcggc gtctctgagg agaccaccac gggtgtcaag 120

aggctctacc agatgcagga gaccggcgcc ctcctcttcc ctgccattaa cgtcaacgat 180

tccgtcacca agagcaagtt tgacaacctg tatggttgcc gccactcgct ccctgatggt 240

ctgatgaggg ccactgacgt tatgatcgcc ggtaaggttg ctgtggtctg cggatacggt 300

gatgtcggca agggttgtgc tgctggcctt aagcaggctg gtgcccgtgt cattgtgacc 360

gagatcgacc cca 373

<210> 37460

<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C9

<400> 37460

gctccagatc gaccctcgag cctgtcgaac gatcctttaa ttccaaccga tcgaaaagtt 60

gcagcggcag tgttgaggcc aaggccaccg acccacctct ctcatagcac tagcagcaat 120

ggaggtggag atcctcgagt cctgcatggt gaaacccagc gacgacatag ggacgccgcc 180

gccgcccatg cacgtggtct ggctctccaa cctcgatcta ctcgtggcca ggagccacac 240

gcccaccgta tacgtgtacc ggcccagccc tgacccggac ttcttctcgc cgggcgtcct 300

cagtgctgcc ctgtccaagg cgctcgtccg cttctacccc ctcgccggcc ggctcgcgca 360

ggacggcgcc ggccgcccgc agatccactg caccggagaa ggcgcgctcc tcgtcaccgc 420

gcgcgccgac gctacccttc aggacatccc c 451

<210> 37461
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D1

<400> 37461

cggacgcgtg ggcacttttt gactaggact ttatttatgt aaccgtttga caacaaagcc 60

tatctgccgt gaattgtcac actgcggagg ccttatagaa agccacttac gcaattaaag 120

attcaggaaa tgacatcgaa gggttagcag agcgcagatg gcgtgaatct gtaccactgc 180

agccaaacac ttcacagcag attttgtagc tattgttgtt ggtagagggt ttccgcttct 240

cttgtgtaac tgaaagctcg tctttatttc aatcactata cctttcttga cag 293

<210> 37462
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D10

<400> 37462

agagtttttc gcgtcaaaac ttcacttttc tcgcctccaa tggtctgcta atcatttcgg 60

catttttttca gcttcccgta aagacgatga tgcatcccgc atatatgcgt gagcgaaact 120

ctccccaatt cttcccgagc gcgcgcaatc cagtagcttc cgacgtcttt tttccagccg 180

cgcacgcagt tttgttcgag gaaaggaggg caagagcggg agacacacca tcgtcgttgg 240

aggagccagc caaggcgttg gagtgtgaga tgatacattc gggatatgaa ccagtcgggc 300

gcgacgatct aaacctatcg aggcaagcac gtcgggataa caacgtcggc ttgcagcgtc 360

cttcggcgag ggccattcat cctttggacc tccggcaaat gggtctattt t 411

<210> 37463
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D11

<400> 37463

cggggctcgc cgtccgcggc gagggccgcg tggtggggtg ccgcagcgcc tgcgccgcct 60

acggcgcgcc gcagtattgc tgcacggggc agttcgggag cccccagcag tgcaagccca 120

cggcctactc gcgcctcttc aagtcggcgt gccccaaggc ttactcctac gcctacgacg 180

acccgacgtc catcctcacc tgctccgccg gcgcctccta cgtcgtcacc ttctgcccgc 240

accgccgctg aacttttatt tttttaaggt cttcggccgc gtgttgttag ttatcctctg 300

cctgcgtttg cgttttgatg ttctggcgtg cgttcgtttc acttgcctcc gtcacgcgtc 360

ttcggaatct cc 372

<210> 37464
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D12

<400> 37464

gaagcagctc ccggcaccgc ggcagaagcg cctcctgctg ctgctccggc ggcgccagag 60

atcaccccag ccaaagctga cgcctgatcg tcacgctatt attcactcac atgtgatgct 120

gcggctgcga ctcctaaacc ttaaatctag aaatagctgg ggattgggtt tgcattgcat 180

cgtgttcttg ccggtctagc aagtgactat aagaataatg gaataaacga tgacccagtg 240

tgtgtatgat ttccattctg aagaacaaca catcccttgc aggattgttg ttcagtagat 300

tttacttgta ccgcggcttt ggagttcccc aaaggacttt gttcaagaac ttcttctctc 360

acaggaaata acatgagtgc agtccgtgct tttatcaaaa aaaaaaaaag gaaaa 415

<210> 37465
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D2

<400> 37465

acgccgtggg agcggctgca gcacgaggca gagcagagcg agggcaagct tatgggggtc 60

cgtacgggac caccaagctg cacatcccac catccgccgc ccgccgaccc acgttcctgc 120

cattcgtggc cgtcctcctc ctctgctctg cctcctatct catcggcgtc tggcagcacg 180

gcggcttcgc cactccatcc gacaaacccg acgacgtctc caccgctacg gccgtcgcct 240

gcaccaacgt cgccgtcgtc ccgaagagga ggacccggtc cggcgccagc ttcccgggcc 300

tcgacttctc cgcgcgccac 320

<210> 37466
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-D3

<400> 37466

gctgctgttc ttgtttcccc gctctccaag atgtcgtccc cgagcaagcg ccgcgagatg 60

gaccttatga agctgatgat gagcgactac aaggtggaga tggtgaacga tgggatgcag 120

gaattcttcg tcgaattcaa ggggccggcc gaaagtatct accaaggcgg tgtctggaag 180

gttagggtag aactgcctga tgcatatcct tacaaatccc cgtccatcgg cttcatcaac 240

aagatttatc accctaatgt tgatgagatg tctggctctg tatgtttaga tgtcataaac 300

caaacatgga gcccaatgtt tgatctagta aatgtttttg aagtattcct ttcacagctg 360

ttactatatc caaatccttc tgatccatta aatggggagg ctgcancact tatgatgcg 419

<210> 37467
<211> 54
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D4

<400> 37467

agtacatgcc caaacgccta gttgtccata acgtactgca cggtcaagca cctc 54

<210> 37468
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D5

<400> 37468

gctgtgctcg cggatgacat attgaaaaat gtggaatatg atgctctaag ggttattttc 60

aacaagttcc attctgtcat atcgtttaag cccacaatgg taacgatact gtcccctgag 120

gttgcagaaa aagaagcaga agctggtggg aagatgggtg acctagattc ttatgagatt 180

gaaggcggtg agacaaaagc agagatattg caaaacctag ctgagttcca gttttcttgt 240

gtcatgtaca atggtgccct agagaatgca tgcagtgagc ttggagcccg tatgtctgcc 300

atggacagct ctagcagaaa tgctggcgat atgcttgatc gtctcacgct tacttacaac 360

aggacacgcc aagcattcat caccacagag cttactga 398

<210> 37469
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D7

<400> 37469

cccacgcgtc cggaaaagta gatccgggtt agggttttag acggcgatgg gtgcggcggg 60

cgacgagaag gctgcgatgg ctgcgtccgc tgcagccgcg ggtgccggtg ccgccgaggg 120

cgagggcgcg gtggactcca aggaccttca gcagcagagc aaggcgctcg acaagctcac 180

tgatcatgtc gaggaccggc agctcgattc atcccgtgtc caatccgcca tggcagcact 240

tgcttcatcc aaggaggctg actggaacgc gatgaggctg agggagaaag aattggctgc 300

tgtgaagatc aaccctgccg atgtcgaaat tatcgctact gagcttgagc tggacaagaa 360

gatcgcggag agaacgctcc gtgagcacaa gggtgatgcc gtggctgcgg ttcg 414

<210> 37470
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D8

<400> 37470

ctgttgtatt gcaggagagt gtgtatgcac ttttgaggaa ggtgggcaaa gcgaggatgg 60

aatgcataat ggacggggag cagccgacga acgaggtggt ggcaaggcgt gctggcatca 120

cgattgaaaa gctggcgaaa ctgagagcga aaacaaggaa agtacggtcc atgcaggatc 180

gagtctggtc agacgacggt gtgacatacc aggagatcac cgaggacccc aacattgaag 240

gtcctgaggt gagcgtggac aggctgatga tgcggcagca ggtgcgcagc ttcctggcgg 300

ggatcctgag cccccgggag aaggagatca tcgagcaccg gttcggcatc cacgacggcc 360

agcccaagac cctgcatgtc atcggcgaca tgtacggtct gtccaaagag 410

<210> 37471
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D9

<400> 37471

gccagccagc catcgtcaca ctggtgagct ctgcagtctg cactctgctt agctccgagc 60

ttcagtgcct tcgttgttag ctgttagctc cacagtccac agttccacac acacgtccag 120

ctgcactgca ccaatggccg ccgtcgaggt ccaggtcccg actgccgctc ccgtcgagga 180

ggctgctgct gctgctgcag cgggagtgga ggctgcccag ctggccgccg tcgagacccc 240

gaacgaggag accgctgctc cggcggcgga gaccgaggtc gtcgccgcta aggagccggt 300

gtcggccgaa gccgagactg agtccaagga ggtcgaggtc gaggccgagg ccgtagctga 360

ggctgagccg accgaggcag agcccaagga agcagagccc gaggccgtcg cgccggcagc 420

agagacggag gctgctgctg ccccggt 447

<210> 37472
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C3

<400> 37472

ggacaatgaa agatatctta agttggaaag gcaattcgtt aaattctaat cgaaaactcg 60

gcctgaatcg aacagctgga tcatcaagta ctgttgatgc taatgtggat cctactgtat 120

tgccacttga acctaaaggt ggccaactgc ctttgttcag cagtggtgat tggatgtcag 180

acattgattc tggatatgag gcagcagaaa ttgcagcttc tactcaaacc tcttcgggtg 240

tcacaccata tctgtgttct gctggaagtg tttttggcag ttcatggatg ctggttaatc 300

atgaccaatc agatggacca tcaacttctg ctggtacatc atcgcagcag aaagttgtac 360

ctcaaagcga gcatcagcgg aattaaaccc gcttcagatc tgcaggaaat tccagagtca 420

aaaacctttt tgctgac 437

<210> 37473
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A9

<400> 37473

ggctctttcc agaaatattg aagggaaaag tttgagccag caactggagt tcgtgtttaa 60

gccagaacta gttagcagcc taccatggcg aaagtaacat actcgaacca atcttggaaa 120

gatcctgtca ttcttgtgcc 140

<210> 37474
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B1

<400> 37474

ggtttgcatg acgcagggcc cgacgttcgg cgccatgatg atctccggcc agaaggcggc 60

gcacctggcg ctgaaggcac tgggcaggcc caacgccgtg gacgggacca tcccagaggt 120

gtcgccggcg ctgcgcgagg agttcgtgat tgcgtccaag gacgacgagg tcgtggacgc 180

ctgagcgagc atccacgcgc cagcatgcaa gcagcgtctt atctgggccg gcgccatcac 240

ggggtttctt cttttaatct gggactttgt tgctgttgga cgaatgaatt cccttcgatc 300

ggttagcttt aatctgtctc ggtagtgtgt cgtgttcgtg tagcaccatg ccacacacca 360

gccgtgtgct ctgtcacgtg ggggccactc gt 392

<210> 37475
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B10

<400> 37475

ccgctgggag cggcagccag cacgaggcag gagcagcgcg agggcaggcg ccatgggggt 60

ccggtcggcg gccacaaagc tgcacatccc accatccgcc gcccgccgac ccacgttcct 120

gccattcgtg gccgtcctcc tcctctgctc tgcctcctat ctcatcggcg tctggcagca 180

cggcggcttc gccactccat ccgacaaacc cgccgtcgtc tccaccgcta ctgccgtcgc 240

ctgcaccaac gtcgccgtcg tcccgaagag gaggacccgg ttcggcgcca gctcctcgtc 300

cctcgacttc tccgcgcgcc ac 322

<210> 37476
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B11

<400> 37476

attagatata gggaaacagt catgattgtt catctactaa attgtaaaca tatcattata 60

ccattcgtta atagtgttct atgatgaagc tgcactgttc tggatttcat gattggtttt 120

gtggctttga tattaatttc ttctgattgc ctcttttcac tataatatat tggagaagaa 180

atgttctgga tggtggacaa aaaggattat tggccaatag aatttttggg cttttcggtt 240

gaagatccaa ttggacattt gggtttcacc ccagaaattt aatcctggtt tatacttaac 300

cacttgggca ttttcacttt ggttattcat tcgatgtaac atgc 344

<210> 37477
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B12

<400> 37477

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgcc cacgcgtccg 60

ctctccggcc cggtgaggga tctcagtaag ctgcctaagt gtaactacga tgattgcaac 120

actggctatg acctcggcga gtacagatag tttatcttgt acatacaggc catctttaat 180

gacccattta ggatgttcaa caacatgctt gagatgtgcg attgctacac gcgatccaac 240

gagcctgacc acagtaacaa tatgtacaac gccgttaaaa tcta 284

<210> 37478
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B2

<400> 37478

gcgaaatcgg gaacgcgcac caactgttcg tcgttgtgtt cgacaccgac aggctcaagg 60

gctccacgct cgtcaccaat ggcgtgataa cggccgggtc tgacgagtgg gcgatctacg 120

gcggtaccgg ggtgtttgcc atggcgaggg gcgtcataag gagaaggtat ctcgccgaca 180

gggccggcgg gaacactgat gagctcaaca tggatgtctt ctgccggccg tttggctcac 240

agtcacagct gcaagataag atgcaggtgc aggggcaggg gcagggctct agcgtcacca 300

agattggact atggggtgga ccgggagggt cggcacagga catcacggga gagcggccac 360

cgcagcgtct tcacagcgtc accgttcgtg ctggcgttgc cggcgacttc atcgagttca 420

cctatactga cagcgc 436

<210> 37479
<211> 359

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B3

<400> 37479

gagctcggga agcttccatc gctggagatt tcgcttaacc tcagctgtaa ccgtctctcc 60

ggggaaattc cagcgcagtt cggcgagctg gataagcttg gcagcctcga catctcgtac 120

aaccagctct ctggcagcct tgcgcccctc gcgaggctcg agaacctcgt catgctcaac 180

atctcgtaca acacgttctc tggtgacctc ccagacacgc ccttcttcca gaagcttccg 240

ctcagcgaca tcgcgggcaa ccacctgctc gtcgtgggcg ccggcggcga cgaagcctcc 300

cggcacgcgg ccgtttcggc gctgaagctg gccatgacga tccttgtcgt ggtgagcgc 359

<210> 37480
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B5

<400> 37480

cccacgcgtc cgagaggctt caccgcatgc tggagaagtc aatcagtcct tccaaagctg 60

atgaattcat cgttaagaag aacattcttt cgatattctc ttcgtgaagg tgatgatcca 120

cagccacggc ctgccagtga cttgaactga tagcgaacca ccactttacg gaaaacagaa 180

caaatcggat gatgtgagag aaaggtggta gtgaagtcca gtagtggcag agctacttcg 240

tgcacgtaga tctcttttgc attttctggt tccagggatt gacttcgtac tcacagttta 300

cttcacacag aaggtttatg tagccatcct gtgataacat ctactttctt tttgatccaa 360

taaattggtt attcagcttc cgtg 384

<210> 37481
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B6

<400> 37481

ggactcaata cccaggacat catccagcaa gagccgacgc ataccggcct gctgatcaac 60

cttccaaggg ttcccaacct gtgaaaatgc aaccgattgc agtccctgcc attccttggg 120

atgagcttaa ggaggtgact aaaggttttg gtgatgaaac cttgattggt gaaggctcct 180

ttggtagagt atacttaggt gttctaagaa at 212

<210> 37482
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B7

<400> 37482

tccacgcgtt cgaccacgcg tccgtccacg cgtccgaaaa aaaaaaaaaa aaagagaaag 60

gaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tatagaaaaa 120

aaaaaaaaaa ttaaaaaaat aaaaaaaaaa aataaggtta aaaaaaaaaa aaaaaataaa 180

ggggggggtc tttaaagaga tccaggtttt ttaaaatggt tttcctattt caaaaatttt 240

ttattgggga ccataatgca aaataacgtg ctcgttttta aaaacagtgg gtatt 295

<210> 37483
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B8

<400> 37483

cgttcttgga gaatcaacca aacagatatt gcaatgaacc tcgtacccga aatgaggcag 60

cagaagatga tagtggctgg gaaactgtaa gccaagttga ggagaatggg tcttgtaatt 120

caccgggcgg aagtgaaccg tctgtaaatg gcttctgtgg agaaaacgat gcttccgtaa 180

gtggaaccga ctgggatgaa aactgtgaca atgatcaggc acacagtgag atcagtgaag 240

tttgttcaac agcagcaggc aggtctcgga acaaaagatc attcgccgga ctatggagat 300

catcaaacac cgtggaccaa aagaagatgg gatccaatac actcaacggt aggtcatcaa 360

atgccaggat gtcaaatgcc accgaatctg ctgacctgaa gaatagcgaa gtgtgtgac 419

<210> 37484
<211> 449

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-B9

<400> 37484

cggacgcgtg ggctgctgct ggccgccgag gtgggcttcg tcggcgccgt cgccgcgctg 60

gtgctcagcc tggcgcacac gcacgagcgc aggtccatgg tggtcggcat cctctgcgtc 120

ctcttcggca ccggcatgta cgccgccccg ctctccgtca tgaaaatggt gatccagaca 180

aagagcgtgg agtacatgcc cctgttcctg tcgctggctt ccctcgtgaa tggcatctgc 240

tggactgctt acgcgctcat ccgcttcgac ctctacatta ctatccccaa cgggctgggc 300

gtgctgttcg cggtggcgca gctggtgctg tacgccatct actacaagtc cacccaggag 360

atcatcgagg cgcgcaagcg caaggccgac cagatcgcca tgaccggngt ggtcgtcgac 420

ggcggcaaga ccaacaacca agccggcgc 449

<210> 37485
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C1

<400> 37485

agccttcggg ctttacactt cttggcatca cataaaacca gtgcaagcag aagcagcgca 60

atggcgagca gcaccatggc cctctcctcc acagccttcg ccggcaaggc agtgaacgtg 120

ccgtcgtctc tcttcggcga ggcccgcgtg acgatgcgca agacggcggc gaaggcaaag 180

ccggcggcga gctccggcag cccgtggtac ggccccgacc gcgtgctcta cctgggcccg 240

ctgtccggcg cgcccccgag ctacctgacg ggcgagttcc cgggcgacta cggctgggac 300

accgcggggc tgtcggcgga cccggagacg ttcgccaaga accgggagct ggaggtcatc 360

cactcccgct tggccatgct gggcgcgttg ggctgcgt 398

<210> 37486
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C10

<400> 37486

cccacgcgtc cgcggacgcg tgggcggacg cgtggggcgc cggcgcctcc atggggttgg 60

gctcactgtc tcctgcagct catggtccgg cggcgaaggg aaggcaagat gtacaccgcg 120

aggaagaaga tccagaagga gaagggtctt gagccctccg agttcgagga ctccgttgcc 180

caggctttct ttgatctgga gaacgggaac caggagctca agagcgacct caaggacctg 240

tacatcaaca atgctatcca gatggatgtt accgggagta ggaaggctgt tgtcattcac 300

gtcccatacc gcctgcgcaa ggccttcagg aagatccatg tcagactcgt cagggagctt 360

gagaagaaat tcagcggcaa ggatgtggta attgttgcta caccgaagat tgtgaggcca 420

ccc 423

<210> 37487
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C11

<400> 37487

cggacgcgtg ggataagttt gatagtggtg atggcacttc atgcaagcgt tgtagttgta 60

agaagtccaa atgcctgaaa ctttactgtg agtgttttgc tgctggagtc tattgttctg 120

agccttgttc gtgtatcggc tgtatgaaca accagagtca tacggaaact gttctatcta 180

cgcggcaaca gattgaatct cgcaatccat tagcatttgc tcctaaagta attcatacat 240

ctgagcctgg tctggaacta agggacttct ccaataaaac tcctgcttca gctcgtcaca 300

aaaggggatg caattgcaag aagtcgtcat gtctaaaaaa atactgtgaa tgttttcagg 360

gtggtgtggg atgctccata agttgcagat gcgagggctg taagaatgct tttggaaaac 420

gggaaggggc tgccgtgtta agcat 445

<210> 37488
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C12

<400> 37488

cccacgcgtc cgtgccttca gatgagctcc gtaaacggtt tgagcaagaa ggaatatcac 60

ttgatcagcc tcttgttacc tcttgtggca ctggtgtgac agcatgtgta ttagccttgg 120

gccttcatcg acttggcaaa accgatgtcg caatttatga cggatcgtgg accgaatggg 180

gcgcccatcc tgacactcca gttgcaactg ctgtttagtc tcttcataat aggacgcccg 240

tgctcttcat agaggacctc ttgattgtat ttgccccgtg ctgtgattct atggaggttg 300

gttggatgct tggatgtaag gctggggaag cgaagccttt tggccttcac tgtaaaagct 360

gcaacagaaa aactgtcaca tgcactgaat tataagataa ctccccttga tctct 415

<210> 37489
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-C2

<400> 37489

catgaatcag cttgatagca gtaacaaatt tgcttgactt ctgacgagta agaaattggc 60

agcaagttca gcaggggcca gactaataaa tcagcttgat agcatccttg cagcggtgcc 120

ttggactttg gcggttagaa gaagtttata attttatatg atgaaattat gtgcatcttc 180

agttgttttt gcctcactgc tctgtaagga catataaaat tggtatttgt actttctaag 240

gttctccttg gaatggtaga gttttacagg gaaccttcca tcatcagttg ctgacatagc 300

tcgaactcga cgtttcttct tcgccagttg cggctctgga taaactcgaa gctgacctat 360

ncaaggtcga cgacgggccc t 381

<210> 37490
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A8

<400> 37490

cccacgcgtc cgcaagaaca actccaactc ccatctctca ctacggcaac actttgcgag 60

ctgagccatc aaagctcggg gcggatggcg gggcggcggc agatcaagaa ggagtgggtg 120

caggcggcgg cggacgcggc gtcgtggtgc gtggcgctgt cgctggtggc gatgctggtg 180

gtgctgtgca cgctgggcgc cggggaaggc ggcggcggcg cgccggtggt ggtggtgcgc 240

ggcgcggcgc tggcggcgcg gccgtgcgag gagatctacg tggtggctga aggcgagacg 300

ctgcacagca tcagcgacaa gtgcggcgac cctctcatcc tggagcggaa cccgcacgtg 360

cacgacccgg acgacgtctt ccccggactc gtcatccgga tcacaccgtt caagcccagg 420

tagatcgatg gcgatccatc g 441

<210> 37491
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H3

<400> 37491

cggacgcgtg ggcggacgcg tggggaaccg cagaagtgca gcagaacgat cggatctagc 60

agaattctct caacctcatc ggcggcggcg aagagcgtgc ggatcggaga tggcgacaag 120

cgggtggagg aggagagcgg cggcgcgggc ctcctggagc cacaccacgg tgtacctgtg 180

gctcgcgctc gccgcagcag cactgacgct cgcccaggct aagaaggacc taacggaggt 240

tacccacaag gtctacttcg atgtcgagat tgacggcaag cccgcaggtc ggattgtcat 300

ggggcttttt gggaagactg ttcctaagac agcagagaac ttccgagctc tttgcacagg 360

agagaaagga attggcaaga gtggcaaagc tctccactac aagggaagta cattccacag 420

aatcattccc agcttcatgc 440

<210> 37492
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-H4

<400> 37492

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgcc cgcacaacgg 60

cacgattctc ctcctccgtc cgcgtagctc tcggtttcgg cgatgtcggg gcgcggcaag 120

ggcggcaagg ggctgggcaa gggcggcgcc aagcgccacc gcaaggtgct gcgcgacaac 180

atccagggca tcacgaagcc ggcgatccgt aggctggcca ggaggggcgg cgtcaagcgc 240

atttctgggc tcatctacga ggagacccgc ggcgtgctca agatcttcct cgagaacgtc 300

atccgcgacg ccgtcaccta caccgagcac gcccgccgca agaccgtcac cgccatggat 360

gtcgtctacg cgctcaagcg ccaaggccgc acgctctacg gcttcggcgg ctaagccgnc 420

tnccttctg atgctttgat gtg 443

<210> 37493
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-H6

<400> 37493

gactagttct agatcgcttc agctcggcgt cttcacaaac gccggcgcaa actctcgccc 60

gagcccgaca gatcttcaat tccccattcc gcccaccgat cgaccttcac gccagtctcg 120

gtctcttccg aaggcgtcgc gcgcggttgt ttgagaggag aggaggaaga tgagggagtg 180

catctccgtc cacatcgggc aggccggcat ccaagtcggc aacgcgtgct gggaacttta 240

ctgcctcgag cacggcatcc agcctgatgg ccaagtgcct ggagataaga ccgcgggaca 300

tcacgatgat gccttcagca ccttcttcag ccagactggt gctgggaagc acgttccccg 360

tgcaatcttc gttgatctag aacccactgt gatcgatgag gtgcgcactg gcacgtaccg 420

ncagctcttt caccctgagc agctcatcag 450

<210> 37494
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H7

<400> 37494

cggacgcgtg ggtctctttg tcctttggtg catgtgcagg caaatgtcat ggttgaacaa 60

ccccaatgat cagctatgag aagaaatgac acgtatcttt cacacgcaca taggagccat 120

acgaagaacg tactaatgaa aagatcgatg aattatattg atatgatatg acgtgagtgt 180

tttgaaatgt ttggtaggtt ctgtttatat ggatttttgt atgtaagact gcattgttct 240

tttgtatgag gcttcatatg acgaggcgat gtctagtcag cacggaccag actatgactg 300

gaggacctca cctattgatc ctcaagctat gtatgtaagt ggtggaaaag ctcatagaaa 360

gtacacaatg tttgctaacg tcatcaactc gagccaggtg agggttcggc gtggaggttc 420

gtcaaggtct gctactc 437

<210> 37495
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-H8

<400> 37495

ctccggcctc ttccacggcc gcctccgccg ccgccgccga ccaccatagc aacagatatt 60

tcggagctcg cgccttacgc gcatggtttg ctcgacgtgc accgtaacta atcgactata 120

agcgtggtgc ctattgacga gatgatgccg gtggaggagg cggcggcgga tgactggtcg 180

gagtgcgcgt tctcgctgac ctgcgaggaa gactgcgccg acctcggcga cggcgagcta 240

ttcccgctct acagtgccgg cgacgaggag gaagatgagt acttggagca gctggtgttc 300

aaggagacca gcttctgctc ctnctccgac tcagctgccg actgcgacgg cgatgaagaa 360

ggagacgaag aatactcttc gctcacctta aaggagtggt tccgtcaagc tcgcctcgcc 420

gncgtcaagt ggattcttga gacccgcggg tgc 453

<210> 37496
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H9

<400> 37496

gccgccgccg cagcaatcac agcagcccgg agaaagccca ggtccgacaa gatgcagatc 60

ttcgtgaaga cgctgacagg gaagaccatc accctcgagg tcgagagcag cgacaccatc 120

gacaatgtca aggccaagat ccaggacaag gaagggatcc cgccggacca gcagcggctg 180

atctttgccg ggaagcagct ggaggatggc cgcacccttg cggactataa catccaaaag 240

gagtctacgc ttcacctcgt gcttaggctc cgcggtggca tcattgagcc ctcgctgcag 300

gcgctcgctc gcaagtacaa ccaggacaag atgatctgcc gcaaatgcta tgcacgactg 360

caccctaggg ctgtcaactg ccgcaagaag aagtgtggtc acagcaacca gctgaaggcc 420

aagaagaaga tcaagaact 439

<210> 37497
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A10

<400> 37497

ccacgccacc cgtctgtcca cacatacatt gacgcgtggg tatctgccac tcgccgagta 60

gatggggaac gggccagacc gtttaagctg tccctgctct gtaccattct actacgcctg 120

cttttctgag actctgacac ggatgttggc aagaccacca gcaccgtctt tggtgactgc 180

tcaaactcct gaagtcggca tcttcattac agctcgcaac gtctcgggtg cacttgtcgc 240

caaactttct ggtaacaaaa acaagtgtgg aggaagatcg aatgttcggc aacggaacat 300

tcaacctgtg aaaaggggct gtcgtccgga gtggcgggcg c 341

<210> 37498
<211> 342
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-A11

<400> 37498

cggacgcgtg ggcggacgcg tgggcccggc ctgtgccgcc gtcgccaccg ctcgctcgcc 60

cgcctgcctg cctgggcccg cagcaccgac tctgacagcg cccgtcctgc ttcctgtacc 120

ggcaggcgag ggagtggact cagggagtgt gatggcggca atgccggcgc cgcttctgcc 180

tctgcttctg ctggtggtgg ccgcggcgat gacgctctcc cccgccaccg nccgcattcc 240

cggcgtgtat gtcggcggcg gcggcggcgg ctggcagagc gcgcacgcca cgttctacgg 300

cggcagcgac gcttcgggca ccatgggcgg cgcctgcggg ta 342

<210> 37499
<211> 129
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A12

<400> 37499

acgctgacgc gagtactgac acgtacaccg gctttgatcc cgcggccaac cgctggcgca 60

cgcttctgcc tagctgtgac cgcaacaccg acactgacag agaccggaca gatttctggg 120

cccataggc 129

<210> 37500
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A2

<400> 37500

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgag atacggttga 60

taaaataaaa cccacttcga tgaaaaagga atgatccgag tacagtacag agttcctaca 120

ctccgggtat gaaaactctc ctcatgacaa gtacagtgtt caccgaagag cgaagtaccc 180

ctctcactca atcataactg actttcttac agactactgg aacttaacac aaacacacag 240

atagggacac ttatcaccac agatcgatcg atcgccacca aactttattc ta 292

<210> 37501
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A3

<400> 37501

tcgcacggcc tcaaggacgg ctggtacgac ggcgtcagca tcttcctcgc cgtcttcctc 60

gtcgccgccg tgtccgcggt cagcaaccac ggccaggcca ggcgcttcga caggctcgcc 120

accgagtccg acaacatcgc cgtcgccgtc gtccggggcg gcaggaggca ggagctctcc 180

atcttcgaag tcgtcgtggg cgacgtcgtg gtgctcaaca tcggcgacgc cgtgcccgcg 240

gacggcgtct tcatgcaggg ccacgcgctg caggtggacg agtccagcat gaccggcgag 300

ccgcaccctg tcgacatcga cgccgagaag a 331

<210> 37502
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-A4

<400> 37502

gttgtttatt tacctatcaa cttatttaag ctggattata taatctagaa ggtaagcaaa 60

catggccttg gagtgcagaa tttcccagca tcatcatgca aatgatttta tcttacatat 120

tgatactagt agtaaatatt tttggagtcg actattctgt cgctaattct ggtacttcac 180

aactaaacca tatatatctc tgtcttggat ttcagaaaag tccacaagta tggaaagagc 240

acaaccggcg agaggtggga cttggtagtc gacgaggaga catactacga ggcggagccc 300

cattacggat gggccgatgt cgtcggagac tcgacgcagc tgctgtccat acagccccgt 360

gagaggccac cncgcgtgtt cc 382

<210> 37503
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A5

<400> 37503

aaacaagatg tgctttgcat acacatctct agttatccat attagattga atgcggacca 60

tgtgtgctga aaaatctagc ttgcacggag cggtgatcat aaacgatatc gtgcatccct 120

acctcgacat cgtccttgtc atggaactag acattggcat gctgacacat atcaatatgc 180

actgcacaca tgactgtgtt gatcctgatt gggaccaaaa acatgtgccc gttcaaccag 240

gaagtatcta ttatgcaggc actgcaagtg acccatccaa cc 282

<210> 37504
<211> 434
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-A6

<400> 37504

ggtcgcgctc cctcccgcac aacacggttt gcggggagat ttggcaggag acgccgtgcg 60

ggaccggctg gttctctcgg cttgcgtgaa aaagcgcagg gggagctagg cacgtggttt 120

ccctcgtctt ctgccgcaga cgcttcccgt gatcagaatc caagaaatgg cgggtccagg 180

tccagcgcgc accgcgcgga gcgttgctct cctgtgtttc ctggtttcct gcgctgcgct 240

cgtggacagc cgtggcggag ccagccggcc gagccggcag gacctcgatg tcggcctcgg 300

cggcgggggc gtcggcatcg gcatcggcat cggcggcggc agcccttcgt cgccttctcc 360

gacgccgncg tcgtcgcagc cgcagccgtg cgacttcgag aacgagcggc tgtacagggc 420

gtacctcgtg atcc 434

<210> 37505
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A7

<400> 37505

aaaagtacac cctcgactcg tcctccgcat tccccgtttg ccttgtttac cattcctccc 60

caaaacacat cctgcgatcc tcgaagcctc cgccgagcat cgatcatgtc ggcctactgc 120

ggcaagtacg cggatgagct catcaagaat gctgcctaca tcggcacccc tggcaagggt 180

atccttgctg ctgatgagtc aactggcacc attggcaagc gcctttccag catcaatgtc 240

gagaacgtgg aggagaaccg gcgggctctc cgtgagctcc tgttctgctg ccctggtgcc 300

ctccagtaca tcagcggtgt gatcctcttc gaggagaccc tctaccagaa gaccaaggat 360

ggcaagcctt ttgtcgatgt 380

<210> 37506
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H2

<400> 37506

gcaagcactc cacactgctg tgcagaacga gagccacacc atcagtagtt agagcgacca 60

atagatgagt tcctccccgt cctttggtct cctggctgta gcagcattac tcctagcact 120

gagcttagca caacatggct ccctcgccgc aaccgtcggc cccagggtca tcgtcgtcgg 180

cgccggcatg tctgggatct cggcggcgaa gaggctgtcg gaggccggga taaccgacct 240

gctgattctg gaagcgacgg accacatcgg cgggcggatg cacaagacga acttcgccgg 300

catcaacgtc gagttaggcg ccaactgggt ggaaggcgtg aacggcggca agatgaaccc 360

catctggccc atcgtcaact ccacccttaa gctccgcaac ttccgctccg acttcgacta 420

cctcgctcag aacgtctaca aggaggacgg tggcgtgt 458

<210> 37507
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-F6

<400> 37507

cccacgcgtc cgcagctcgc tagcatagca gcaaccagca atggactcca ccaagttatc 60

cgcgctgctg gcgctcgcgg tgctcgcgct ctcctcgtcg ccgctcgctc tcgcgtggga 120

gaaggcgcag ccggagtgcc actcgtgcga gtccggctcg ccgccctcaa ccggcgtccc 180

cctgccccca atcagcatac cgtcagtccc cctgccccca gtcagcatac cgtcagtccc 240

actgcccccc gtcagtatac cgtcggtccc catcccaccg gtcacccagc tgcccccagt 300

cgtcggactg ccgccggtga cccttcctcc cattccgatc atcggaggaa gcccgccgaa 360

gaagggccac cggaaggcgt gcccgccgnc ttcgtcttcc ccgacgccca cgcccacgcc 420

cacgccgttc tcggacaagt gccccatcga cgcgc 455

<210> 37508
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F7

<400> 37508

ggctatcata tggtaaactg tggtttgata ctgttgaaga tgttatccga atacgttgac 60

atcagtaaat gtttaccatc actatctttg gaggtggtcc aacgtgttgt ggaaatatta 120

aagcttttca acactaggac ttgccaactt gttctcggtg caggagccat gcatgtgtct 180

ggacttaaat caattacgtg caagcattta gctttggcga gtcaaatcat tagttttatg 240

cattctttaa ttccagatat caggcgagta cttttcctga aaatacctga agcgcgcaaa 300

catctgttaa tgtctgagct ggatagagta gctcatgact acaagatcca tcgagatgaa 360

attcacaaca aacttgttca gataatgata gagaggttgc ttgcaaatct tataaaatta 420

ccccaaattg tg 432

<210> 37509
<211> 139
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F8

<400> 37509

cccacgcgtc cgcgcagagt cccctgtgct gactctgtgt catggatggt ccattttatc 60

ttgtggtatt atcagccttt acataactgc tatgtttgga tatgttcaat tctgttgcaa 120

ttttatgtgg ttgtttttt 139

<210> 37510
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F9

<400> 37510

cacagctagc tagcatacag acgaataatc tcttcttcac ctcactaaca ccagctagca 60

gctcttgctc tcctgcaata atggccgctc gctcctcctc ctcccagccg cagctggtcg 120

cggcggcggc ggtcctggca gcggcgctgc tgctgctggc ggcgggggcc gggacggcgt 180

cggcggcggt gagctgcgtc gaggtgacag tgacggtggc gccgtgcctg gggtacgcga 240

tgggcagcgc ggcgtcgccc tccgcggctt gctgcaacgg tgtgcgctcg ctcaaccgcc 300

gcgcagtcga ctgcatggga ccggctagcc acctgcaact gtgtaaagag catgacagaa 360

cctctc 366

<210> 37511
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G1

<400> 37511

cccacgcgtc cgacaagctc aagctcggcg agatcgtcac aaccatcccc accatcgggt 60

tcaatgttga aactgttgag tacaagaaca ttagcttcac ggtctgggat gtcgggggtc 120

aggacaagat cagacctctc tggaggcatt acttccagaa cacacagggt cttatctttg 180

ttgtggatag caatgaccgt gaccgtgttg ttgaagccag agatgagctg cacaggatgc 240

tgaacgagga tgagctacgt gatgctgtgc tgcttgtttt cgccaacaag caagatcttc 300

ctaatgccat gaatgctgct gagatcactg acaagcttgg attacactcc ctgcggcagc 360

gacactggta catccagagc acttgtgcca caactggcga gggtctgtac gagggcctgg 420

actggctgtc cagcaacatt gcgag 445

<210> 37512
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G10

<400> 37512

gcaccaaaca ccaccaccaa agaaggcgag aacgtactcc gtccctcccc tcccctccgg 60

tcccctgccc ctcgaggctc caggaccgtc tcctcgcctg ctcatccgcc gctgctcccc 120

ttctctgggc tcggagaacc ggagagaagc gcgcgcggcc atggcgtcca gcgcctctcg 180

gttcatcaag tgcgtcacgg tcggcgacgg tgccgtgggc aagacatgta tgctcatctg 240

ctacaccagc aacaagttcc ccactgacta catacctacg gtgttcgaca atttcagtgc 300

aaatgtagtt gtggatggca ccactgtgaa tttgggcctt tggg 344

<210> 37513

<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G12

<400> 37513

ctcgacgcgc ctctgaaagt tcggagccgc cggcccgtcc gcctccctct ccgcctcccg 60

tccccaaggc caatagtttt caagtggcaa tggcggacca ggctaaccaa cccactgtcc 120

ttcataagct cggtggccag ttccacctgc gctcgatcat ctctgaaggt gtacgggccc 180

gtaacatatg cccatctgtc tcatcttatg aaaggagatt tgccacaagg aactacatga 240

cccagagcct ttggggccct tcaatgtctg ttagcggtgg catcaatgtc ccagtgatgc 300

agaccccgct ctgtgctaat gctcctgctg agaaaggagg caagaacttc atgattgatt 360

tcatgatggg cggtgtttca gctgctgttt caaagactgc tgctgctccc atcgagcgtg 420

tgaagctgct tattcagaac caagatgaga tgatt 455

<210> 37514
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G2

<400> 37514

gagaaaagta gatccgggtt agggttttag acggcgatgg gtgcggcggg cgacgagaag 60

gctgcgatgg ctgcgtccgc tgcagccgcg ggtgccggtg ccgccgaggg cgagggcgcg 120

gtggactcca aggaccttca gcagcagagc aaggcgctcg acaagctcac tgatcatgtc 180

gaggaccggc agctcgattc atcccgtgtc caatccgcca tggcagcact tgcttcatcc 240

aaggaggctg actggaacgc gatgaggctg atggagaaag aattggctgc tgtgaagatc 300

aaccctgccg atgtcgaaat tatcgctact gagcttgagc tggacaagaa gatcgcggag 360

agaacgctcc gtgagcacaa gggtgatgcc gtggctgcgg ttcgattcct gctgcgctag 420

ttccgagatt tcgtcgccag catcatatgt tcccccttc 458

<210> 37515
<211> 449
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G3

<400> 37515

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgttcggc gagccaataa 60

aatgtttgtg gactacaatg agcctccaac agagagaata tactcatctt atcttgagct 120

gaaccttgat gaggtggagc ctagcatgtc tggcccaaag aggcctcatg atcgtgtccc 180

tttgaaggaa atgaaatcag attggcatgc ttgcctggac aacaaagttg ggttcaaggg 240

ttttgcagtg ccaaaggagc agcaggataa ggttgtcaaa tttgactttc atgggcagcc 300

agcagaaatc aagcatggta gtgttgttat agcagcaata actagctgca caaacacctc 360

aaatcctagt gctatgcttg gtgctggtct tgtagctaag aaagcttgcg agatgggtct 420

tgaggttaaa ccatgggtga agacaagcc 449

<210> 37516
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G5

<400> 37516

aggccttgaa gaattcaaga atgaggtcat acttattgca aagttgcagc accgcaatct 60

tgtaagacta ctagggtgct gcatacagag ggaagagaag atcctggtgt atgagtacat 120

gcctaacaaa agtctagatg cattcctctt taatcctgaa aagcaacggc ttctagactg 180

gaagaaacgg tttgatataa tcgaaggcat tggtagaagg ctgctatatc ttcaccggga 240

ttcg 244

<210> 37517
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-G6

<400> 37517

cggacgcgtg ggcacaaagc agagcaggca acggcacagc ccagcacagg tagagagaga 60

aagagaagcg cggagtcaag aagcggagca acaacagcag gccgaggaag agaagagaag 120

gccaggaggc agcagccagg aggaagagca agagcaagat gctgcgcggg ggctcgagcg 180

tgctggggat catcaacttc atcaccttcc tgatctcgat cccgatcctg ggcggcggca 240

tctggctggc gtcgcgggcc aactccaccg actgcatccg cttcctgcag tggcccatca 300

tcattgtggg gctcgtcctc atggtcatct ccctcatggg cttcgccggc gcctgctacc 360

gncagacctg gctgctccgn ctctacctct tcgccatgtt cttcgtcgtc ctcgcgcttc 420

tcttcttcat cgtcttc 437

<210> 37518
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G7

<400> 37518

cggacgcgtg ggcaaatgtg caaggctact tcgcttggtc tctgctggac aactttgaat 60

ggttcgccgg cttcaccgaa cgttatggca ttgtctacgt cgaccgcaac aataactgca 120

cgcgctacat gaaggagtct gccaagtggt tgaaacagtt caacgccgcg aagaagccca 180

gcaagaagat tcttacgcca gcttagaaat cgggggcctc atgatgtggg tgcagcccat 240

aaaaaactgg tgtgtggttt ggaaccgaaa attttctgtt tttttccgcc acgagaagtt 300

ctggaagcat actctccagc accgtggcta ataacgcatt gttccaattc agtctggcct 360

tgtcatgcat gcaataaata aagtgatggg tttcccatgt tcaatatc 408

<210> 37519
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G8

<400> 37519

cccacgcgtc cgcccacgcg tccgcccacg cgtccgtttt tttttcatga atcggtcaaa 60

aggccgttct gacgagggtg aacacgatca ccggcgtggc atacaaggac gacccgacga 120

tcatggcgtg ggagctgatg aacgagccgc gttgccagtc cgacgtgtcg ggccacgcca 180

tccagtcgtg gatcacggag atggcggcgc acgtgaagtc catcgacggg aaccacctgc 240

tggaggccgg cctggagggc ttctacggcg cgtcgtcggc ccgcaggtcc gcgaacccgt 300

cggggtacca ggtgggcacc gacttcatcg cctggctcga cgcccacatc gccgacgcgc 360

gggcggtgct gcgcaagccg ctgctggtgg ccgagttcgg cgagtcgcgc cacgacccgg 420

gctacagcgg cggccaacgc gacgcggtgt tcggcac 457

<210> 37520
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G9

<400> 37520

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgag cacctggcgg 60

tcctatcatg gtgcgggcgc tggagagcat cggcccccgg ccaggcacag gcgcgaggcc 120

ccggcagtgc gagggcgcgc ggccctggcg gcacgcctgc ccgatgcagg caaggctccc 180

ccggcgcgcg tgggcgcgag gcgcggcggc caggccccgt cggcccctgc gtgggtgcgg 240

cagcgcggcc ccggcgctga cggcgtgggc gcggctgcac ggcggctcgg tgcaggccgg 300

ctgcccggcc tacgagggcg gcatggcggt gcggcggcca tggccccagc cacgacgttg 360

gtgctgcgga tccagccccg accccggtgc gggagcgggc gtggcggccc ggcccctgcg 420

cacggcgcaa ctcgggcg 438

<210> 37521
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H10

<400> 37521

gttgtcagag agcatgaccc ttctggaaga gatgttgaac ttttccgtag gcaccattat 60

tctgggggaa agggtccaac agtgaaaggt ctgaaaggag cggagctggc tgatgggctt 120

gttatcaaag aaggggagta caagttggtg aagactagat ttagtgcttt cttcgcaaca 180

catcttgatt ctgtcctgaa aactgcagga ataaagaact tggttattgt tggagttcag 240

acaccaaatt gcattcggca gactgtgttc gatgctatag cactggacta tgagaaagtt 300

acggttctaa ttgatgcaac agctgctgca agaccagaaa tccatttgtc caatatcagg 360

gatatgaaga acatcggagt ggacacgcca ac 392

<210> 37522
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H12

<400> 37522

ctctgaaaca aagcgttgca gtttttaagg aatctcctcc tttgaaacaa agcatttcag 60

tttttaagga atctcctcca ctggaggaaa ctactcctaa agaagctgtt atgctaagtg 120

accgagggct tttcaatgtg cagaatcatc aattatccca tgtaacagaa gatgttcaga 180

atatgaaatc aaagctcaac aatcttgaat caaaattgga agaggctgaa aagatgataa 240

taaggctaag agaagagagc agaaatacca cccaggagcg ggatgagcta cagc 294

<210> 37523
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F5

<400> 37523

aacagtctag actccaaaat gtgagggcct tggaaaccaa gaggatgcac tagatatttt 60

caatgaacac tttattgttt ctgtttcatt ttatttcaaa acatggtatg tactccctga 120

cttcacttga gaagcgagaa ttgtatcctt gttttgatgg gggtatggtg agtttgctca 180

gaaaacaata tggctcttgg ttctccgttg cttatgattc ttggtactcg agcactcctg 240

ctcatgtgag atactaatgt tttgattttg atacagtgca agtaccttag tgcagaggaa 300

gcctgtaggt ggtgcttttc agaatgccaa agtatggagt atggactttg tcaaatcttg 360

accttaatgc tgagtaaata ggacaaactg gccgacaagg tcaaggagtg caaccaggca 420

gcaccaatga cgatggatgc actc 444

<210> 37524
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D10

<400> 37524

gctgcagcgc ctccgtcgcc gctgccgcat ctaacgcagt tccctccgcc gcagcccgag 60

gcaagatggt tctccagaac gacattgatc tgctcaaccc gccggcagaa ctcgagaagc 120

tcaagcacaa gaaaaagaga ctcgtccagt cgcccaactc cttcttcatg gatgttaagt 180

gccaggggtg cttcagcata accactgttt tcagccactc ccagactgtt gttgtgtgcc 240

ctggctgcca aactgtcctc tgccaaccca caggaggaaa ggcaaggctc actgagggct 300

gttctttccg caggaaggga gactagagcg gatgtggtct tcaagttttg ctctatgcca 360

gatactagcg tcatgaactg cctttagcta agattttcca taagttgttc tcgagcagct 420

atgtgttgca tgttggctac ttccaaactt atatctgg 458

<210> 37525
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F4

<400> 37525

cagactcctg ctgcagcgcc tccgccgctt ttgtttcatc taacgcagtt ccctccgcgg 60

gagggtgagg caagatggtt ctccagaacg acattgatct gctcaacccg ccggcagaac 120

tcgagaagct caagcacaag aaaaagagac tcgttcagtc gcccaactcc ttcttcatgg 180

atgttaagtg ccaggggtgc ttcagcataa ccactgtttt cagccactcg cagactgttg 240

ttgtgtgccc tggctgccaa actgtcctct gccaacccac acgaggaaag gcaaggctca 300

ctgatggctg ttctttccgc aggaaaggag actagagcgg atgtggtctt caagttttgc 360

tctatgccag atactaagcg tatgaactgc ctttagctaa aattttccat aagttggtct 420

tgaacagcta tgtgt 435

<210> 37526
<211> 417

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-F8

<400> 37526

cccacgcgtc cgcggacgcg tgggttttgt tttgccgagg ccattggtgc catgcggcca 60

gccctttttct tctccatggt tcccatcgat gtgtttttgt tcggttctct cgtcagatct 120

gtataaatag gcgcctacct tctccgccat tcctcggtcc tgtgaagcgt ttcagttcat 180

cgattgagtt cttggatgcc tctagttgta ttgtgtgttt cttctttctg gtctatgtac 240

taggactata gtaccaggat ctgagtcgtt ttttttgggg tcttgctcct gtctgccgtt 300

tctttccccc cttccagagt taggttctgt tggtttcttg cctgcaatat agtttcgtgg 360

cgcaccgtca agggtgtgtc tagactttaa agactggttg ttggcagttg ggtttat 417

<210> 37527
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G12

<400> 37527

ggcaaccctt ccaaggacaa ggaggagcat gccgagttca agaagatgtt tgacctcatg 60

gagcagtaca acctgaacgg gcacatccgc tggatctccg cccagatgaa ccgcgtccgc 120

aacggcgagc tgtaccgcta catctgcgac accaagggcg ccttcgtgca gcctgctttc 180

tacgaggctt tcgggctgac ggtggttgag gccatgacct gcggcctgcc cacgtttgcc 240

acagcctacg gcggtccggc cgagatcatc gtgcacggcg tgtctggcta ccacatcgac 300

ccttaccagg gcgacaaggc gtcggccctg ctcgtggact tcttcgacaa gtgccaggcg 360

gacccgagcc actggagcaa gatctcccat ggcgggctcc agcgtatcga gga 413

<210> 37528
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B2

<400> 37528

acttcccgta caccgagtcg cacaagaggt tgacctccct tcactcggag attgaggagc 60

gtcctgtaca gccaaaccga gaacacggag cacaagttcg ttctgaacga caggaacaag 120

ccaatcatct tctccatggc tcgtctcgac cgtgtgaaga acttgactgg gctggtggag 180

ctgtacggcc ggaacaagcg gctgcaggag ctggtgaacc tcgtggtcgt ctgcggcgac 240

catggcaacc c 251

<210> 37529
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-C1

<400> 37529

actgcgacct ctactggaag aagtttgagt tatcacttcc acttctcgtg ccagttcacc 60

ggtgacggtg attgcaatga accatgccga cttcatcatc accagtacct tccaagagat 120

cgccggaaac aaggacaccg tcggccagta cgagtcacac atggcgttca caatgcctgg 180

cctgtaccgc gttgtccacg gcattgatgt gttcgacccc aagttcaaca tcgtgtctcc 240

tggcgcggac ctgtccatct actttccgta caccgagtcg cacaagaggc tgaccttcct 300

tcacccggag attgaagagc ttctgtacag ccaaaccgag aacacggagc acaagttccg 360

ttctgaacga caggaacaag ccaatcattt tttc 394

<210> 37530
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E7

<400> 37530

caaacaacag tatgaggagg tttccattcc accacatttg atggtcggga cttccatggg 60

actatttgat ttcattgctg ctgcattggc taaatttgtc ggtactgaag gtgaagattt 120

ccaactccca gagggtagac agagagaact tggtttcact ttttccttcc cggtgaacca 180

aacatcaata tcatcaggaa cactcatcaa gtggacaaag ggcttttcca tcaatggcac 240

ggttggtgaa gatgttgatt ctgagttgag cagggccatg gagaggcagg ggctagatat 300

gaaagttacg gcattagtca atgatacagt cggcacattg gctggtggga gatatatgga 360

taccgatgta gttgcagctg taatattggg cactggtaca aatgcagcat atgtggagca 420

tgcatatgca attcctaaat ggg 443

<210> 37531
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-F6

<400> 37531

cgacgagttc gggcacatgt tggtgaacat cctgaagcag aacattgtga actcggaggg 60

gtgcctgttc gacaagcacg cgcggacggc gctggccttc gtgacgctca agcacgacgg 120

ggagcgcgag ttcatgttct acaggaaccc gagcgcggac atgctgctga cggaggcgga 180

gctggacctg ggcctggtgc ggcgcgccaa ggtgttccac tacggctcca tctcgctcat 240

ctccgagccg tgccgctcgg cgcacatggc cgccatgcgc gcagccaagg ccgcgggcgt 300

gctctgctcc tacgacccca acgtgcgcct tccgctctgg ccgtcgcccg acgccgcacg 360

cgagggcatc ctcagcatct ggaaggaggc cgacttcatc aaggtcagcg acgacgaggt 420

ggccttcctc acgcgcggng acgccaacga c 451

<210> 37532
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-F2

<400> 37532

tcgacccctt ttgctgaaca tgcttaagcc tatcaataag tactcggagg ggtgcctgta 60

cgacaggcgc gctttgacgg cgctgggggt cctgactctc aagcacgacg gggagcgcga 120

gttcatgttc tacaggaacc cgagcgcgga catgctgctg acggaggcgg agctggacct 180

gggcctggtg cggcgcgcca aggtgttcca ctacggctcc atctcgctca tctccgagcc 240

gtgccgctcg gcgcacatgg ccgccatgcg cgcagccaaa gccgtgggcg tgctctgctt 300

ctacgacccc aacgtgcgcc ttccgctctg gccgtcgacc gacgccgcac gcgagggcat 360

actcagcatc tggaaagagg ccgacttcat caaggtcagc gac 403

<210> 37533
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F2

<400> 37533

ggcctgaagg gagttgccag gagcatgcct tcatctgctg cccttgatgt tgttgcaaag 60

aatttgaacc ttaagttctt tgaggtgcct actggatgga agtttttttgg gaatttgatg 120

gatgctggaa tgtgctcaat ctgtggtgaa gaaagctttg gcactgggtc tgaccacatt 180

cgtgagaagg atggcatctg ggctgtgctt gcatggcttt caattattgc tttcaagaat 240

aaggacaacc ttggaggaga taagcttgtc acttgtgaag atattgtccg tcagcactgg 300

gccacatatg gtcgccatta ctacacacgc tatgactatt aaaatgttga tgcacgggc 359

<210> 37534
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-E12

<400> 37534

cacagttccc atataggcag ccatcggcta cacagcctcg cctccgtaag cagagtgtgt 60

cgttgcggag gcaggaagag agacgacggc ggccatggcg acctccttcc aggggacgac 120

caccaagtgc accgtctgcg acaagacggt gtaccttgtg gacaagctca ccgncgacaa 180

ccgcatctac cacaaggcct gcttccgctg ccaccactgc aagggcaccc tcaagctcgc 240

caactacaac tccttcgagg gagtgctcta ctgcaggcct cacttcgacc agctgttcaa 300

gaggacaggg agcttggaca agagcttcga aggaactccc aaggttgtca agccagaaag 360

aaacgttggg aatgagaatg ctactaaagt ctcaagcgcc tttgctggca ccagagagaa 420

atgtgttgga tgcagcanga cagtcta 447

<210> 37535
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B6

<400> 37535

gatccggtct gatgtttctg aagtagttgt tgctgacgag tttgagtaca aggatgctgt 60

ggatggctct gtgtccaagc accagggcat ccgatacctc tttggagatg gttcacgact 120

ggtgttccgc ctctct 136

<210> 37536
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-D5

<400> 37536

cccacgcgtc cgcccacgcg tccgggaaat cactccagaa ttttgaaaag gtgacggaaa 60

tagtgaggag cggagaacac cggaatgatc catcctctcg tgctatccct gccctccccc 120

gctataatat cgcgccctcg tcgccatcgt caccacacca ccactccctc actgccctct 180

cactcccgat ccctgcacca ctaccgcctc ctccgcgtca cccctctcgt cgcctcttgc 240

ggcgaccggc ggcggatcgt ccgctgcgca agcgcaacca tggggctctt caccgtgacg 300

aagaaggcca tcacccccct cgaaagccag aagcccggta cctnctgcct ncgcaagaag 360

gttactgtat tccagcagcc tcattatctg cagaac 396

<210> 37537
<211> 477
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-025-Q1-K1-E9

<400> 37537

attcggttct tcgacaaagc gattggaatt aatgttcccc gctcaaggtt tctcccagtg 60

gaggctacat ctgatctgtt gcttgtgcag tctgatcttt acaccttggt tgatggcttt 120

gtcatccgca acccatccag agcgaatcca gctaaccctt caattgagct tggacctgag 180

ttcaagaagg ttgccaattt ccttggtcgg ttcaagtcca tccccagcat agttgagctt 240

gacagcttga aggtttctgg tgatgtctgg tttggctctg gaattacact caagggcaag 300

gtgacaatta tcgccaagcc tggagtgaag ttggagattc cagatggaga cgtacttgag 360

aacaaggatg tcaatggccc tgaggatctt taagcaatgt ttatcatcac cagttttccc 420

aaggacatgt cacaggaact gccaagccta atcactncta ctgagctcta tattttg 477

<210> 37538
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-E11

<400> 37538

ggaaattatt ccaaacccca aggaagttgt tggtgtgaaa gtccttcaac ttgaaactgc 60

agctggtgca gctattcgtt tctttgacaa agcgattgga attaatgttc cccgctcaag 120

atttctcccg gtgaaggcta catctgattt attgcttgtg cagtctgatc tttacacctt 180

ggttgatggc tttgtcatcc gcaatccatc cagagcgaat ccagctaacc cttcgattga 240

gcttggacct gagttcaaga aggttgccaa tttccttgct cggttcaagt ccatccccag 300

catcgtcgag cttgacagct tgaaggtttc tggtgatgtc tggtttggtt ctggaattac 360

gctcaagggc aaggtgacaa tcaccgccaa gtctggagtg aagttggagg ttccagatgg 420

agcttgattt gaaaacaagg atgtcaatgg 450

<210> 37539
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-H5

<400> 37539

cggcggagga agtgtggaag gagatcactg gcggaggtgg cagtggggaa gccgtggctc 60

ccgtggcggc tcaagttgtc gctcccgatg gtggcgccgg cacaagcggc ccggaggtga 120

cgctggagga cttcctggcc agggagagcg cggtgaagga ggatgaggtt aagatttctg 180

tccccccccgc gccggtcatg gggttaccgg gcggagcgga gggcgtgagt gtgcctggcg 240

gcggaggcgg gagggaacgg aagcggcagc ttgtgagtac agaggatcgc gctcgctctg 300

ctatccagcg agagaaacga atgataaaaa accgcgagtc tgctgccagg tcacgggaga 360

ggaagcaagc ctatatcgcc gagctagaat acat 394

<210> 37540
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E11

<400> 37540

catggtacca ccttatggga ctccaccatt accttatgtg atgtatccac ctggagcagt 60

atatgcccat ccctctacac ctcctactat gcatccgttt agtcattacc ctatgccaac 120

aaatggacat gctgaaactc ctggaaccgc gccaagtgct ccagaaatga atgggaaaag 180

tgagcctggc agaacatctg ctccatctgc caatgggatt acctcgcaca gtgagagtgg 240

aagtgagagt gagagtgaag gaagtgatgc caattatgaa aatgattcac attcaaagga 300

caatgatgga aaggaagatg gcaattctca gaatagca 338

<210> 37541
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C7

<400> 37541

tcgcccacgc gtccgctgca gatgtaaatg acatgatttc tgaaaagttg atggtccaaa 60

taagggttaa cgaaggcatt gaagaagata tcccaccgag ccaatatgcc aggtgtgaag 120

agaaaataac tatgactcca gctgccatct caagggaagc tggtcttcca ggatatggtc 180

ctggtcctgg agaaaacttt cttcaggtca gttcaaggaa tactagctgt gagcagagtg 240

tgatactggc tcctaccgct atcgcaagag aagttggtcc accaggatat gcgactggag 300

aaaaccagcg caatggggct ccatggaata caagttatga gcgaagacta tttatgaatc 360

ctgtgaccag ctcaagagca gtcagtcctc caggatatgg gcctgaagaa agccgaggca 420

gtggcatttc ctggaataca agc 443

<210> 37542
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B3

<400> 37542

cggacgcgtg ggatgatgct cattcaggat gggagcgtga gattcaaaga actatgttgg 60

agctgctgaa tcagctagat ggttttgact cacgtggaga tgttaaagtc attctagcaa 120

caaaccgcat tgaaagtctt gatccagcct tgcttcggcc aggccgtata gaccggaaga 180

ttgaatttcc tctaccagat attaaaacta gacgacgcat cttccagata cacacatcga 240

aaatgacatt agctgatgat gtgaacttgg aagagtttgt tatgaccaaa gacgagtttt 300

cgggtgctga tattaaggca atctgcacag aggctggatt gcttgcctta agagaacgca 360

gaatgaaggt gacccatgca gatttcaaga aagcaaaaga gaaggtgatg tacaaga 417

<210> 37543
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G7

<400> 37543

cttacggtct tctcttctcc actaccaccc gcccgcccgc cttctcctcc accactgcgc 60

cgtcgtggaa taggggcaag ttcaggcatc tcgcttctgt cctggtcgag gggatcggag 120

aagaatgggc tcggaagcgg actgcgacag gatcaggggc ccgtggagcc ccgaggagga 180

cgacgcgctg cggcggctcg tggagcggca cggcgcgcgc aactggacgg cgatcgggcg 240

cgagatcccg gagcggtcgg gcaagtcgtg ccgcctgcgg tggtgcaacc agctgtcgcc 300

gcaagtggag cgccggccct tcacggcgga agaggacgcg gccatcgtcc gcgcccacgc 360

gcg 363

<210> 37544
<211> 453

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G4

<400> 37544

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcact tagcatgaag gagctcgagc 60

agctggagga ccaaatagag atatctctga agcatatcag ctcaagaaag aatcaaatgc 120

tacttgatca gctctttgac ctcaaaagca aggaacaaga attgctggat ctcaataaag 180

acctaaggaa gcagctgcaa gaaacaaggc cagagaacgc gctccgtgtc tcctgggagg 240

aaggtgggca cagtggcgca agtgggaatg ttcttgatcc ttatcagggg ctccttcagc 300

acctggacaa cgatccttcc ctgcaggtcg ggtaccatca tcaagcctac atggatcagc 360

tgaacaacga ggacctggtg gacccgaatg agcatggtcg atctggatgg atatgaaatg 420

ctctgatgac ccaaaataaa gttgatgcac agc 453

<210> 37545
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-F8

<400> 37545

cgcacgcgtc cgaggtcatt gagcttttaa tcaaacatcc ggaactgtgg gagagcgttg 60

gaattgcaca accaaagggt gtccttcttt atggacctcc gggcacagga aagacattgt 120

tggcacgtgc ggttgctcat cacactgact gcaccttcat cagggtgtct ggttctgagt 180

tggttcagaa gtatattggt gagggctccc agatggttag ggaactcttt gttatggcca 240

gggaacatgc accatccatt atatttatgg atgaaattga ctctatcgga tctgctagaa 300

tggagtctgg aactggcaac ggtgacagtg aagttcagcg tactatgctt gaactttcta 360

accagcttga tggttttgaa acatcaaaca aaattaaggt tttgatggca acgaacagaa 420

tagacatttt ggatcaagcc ct 442

<210> 37546
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-B3

<400> 37546

agaacataca caaaggatta tgtcagcaac ttgacagtgc agcaggatat tgagcgagtg 60

gaagctgatg cggatggcct gtcaaagaga ctcgaagcac ttgaagctta caaaaggaaa 120

cttttgggtg agaggttgga agactgctcc attgaagagc tgcatagttt ggaagtcaag 180

cttgagaaga gcctgcattg catcagggga agaaagactc agctgctgga ggagcaagtc 240

cgtaagctga agcagaagga gatgagtctg cgcaagagca acgaagattt gcgtgaaaag 300

tgcaagaagc agccgcctat gacgatggct ccgccgncga ctcgtgcgcc ggcagtcgac 360

accgtggagg acgatcaccg ggagccgaaa gacgacggaa tggacgtgga gacggagctg 420

tacatagga 429

<210> 37547
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H10

<400> 37547

agcagcagct ggagagttca ctgaaacatt ttacaacaag gaagagccag cttatgggcg 60

aggcaatttc agcgctccaa cggaaggaga agtcactgca ggaggagaac aaggttctgc 120

agaaggagct cgcggagaag cagaaagacc agcggcagca agtgcaacgg gaccgaactc 180

aacagcagac cagttcgtct tccacgtcct tcatgttaag ggaagctgcc ccaacaacaa 240

atgtcagcat cttccctgtg gcagcaagcg ggacggtggt ggaaggggca gcagcgcatc 300

cgcaggctcg cgttggactg ccaccatgga tgcgtagcca tctgagctgc tgaagcttgc 360

cctcaccgtc gcgatgtgat ag 382

<210> 37548
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F11

<400> 37548

aaggaatctt tcagctcaca cctccctatc cctccttccc ttctcctcct actgctactg 60

ctcgccaggt cccctcgctc gctcgctcgt cgtcttcaac ctcacacaat tatttgtgct 120

cccgctcctt ccgtccgtcc ttcctccccc cttcccctct ccctcttcca accgccgctc 180

ctgctgcctt gcctctcagc ccagggacgc caaggtctct gccaggatgg tgtaggccgt 240

gcctctcgcg cattatgagg tgtggtggtg agggatgggc gatggccttt gcagatgaag 300

gagcgacagc gctggcggcc tgaggaagac gccgtcctgc gcgcctacgt ccggcagtac 360

ggcccccgcg agtggcacct ggtgtcgcag cgcatgaacg tggccctcga ccgcgacgcc 420

aagtcgtgcc tggagcgctt gaagaactac 450

<210> 37549
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G8

<400> 37549

ctcaaggtgg gttcggttct ttttggctgt ttcttcctgt atgatatctt ctgggtgttt 60

agctccaaga gatggtttca tgagagcgtg atgattgtgg ttgcgcgtgg cgacaagacc 120

gacgaggatg gtgtgcccat gctgctaaaa atcccgcgca tgtttgatcc atggggtgga 180

tacagcatca ttggctttgg tgatatcctt cttcctggtc ttttagttgc tttctcgcta 240

agatacgatt tttctgcaaa gaagggctta cggtctggtt actttttgtg ggcaatggtg 300

gcctatggct ctggacttct aatcacatat gttgcgctga acctgatgga tgggcatgga 360

caacctgccc ttttgtacat cgtgcccttc actcttggca ccttgatcgc gcttggatgg 420

aagagagggg agctgcagaa cctgtgggcg aggggag 457

<210> 37550
<211> 325
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-H6

<400> 37550

cccacgcgtc cgcccacgcg tccgtttgaa tgcagcagaa tcgctgaggg atcgtcgatc 60

cggagaggca aacaagtcga gagatcaggc agggcaccat ggggcgcggg aaggtggtgc 120

tgcagcggat cgagaacaag atcagccggc aggtgacctt cgccaagcgc cggaacggcc 180

tgctcaagaa ggcgtacgag ctctccgtcc tctgcgacgc cgaggtcgcg ctcgtcctct 240

tctcccacgc cggccgnctc taccaggtct catcctccta caatctgctt aagactctaa 300

agcggtacca gaggtacatc tatgc 325

<210> 37551
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-H4

<400> 37551

aaaaactcca ctggacactg aaattaaata ccaggattat ctcaagttga ggacaagggg 60

tgaattcctt caaactacac aaagaaatat tcttggggag gatctgggtc cacttagcat 120

gaaggagctc gagcagctgg aggaccaaat agagatatct ctgaagcata tcagctcaag 180

aaagaatcaa atgctacttg atcagctctn tgacctcaaa agcaaggaac aagaattgct 240

ggatctcaat aaagacctaa ggaagcaact gcaagagaca aggccagaga acgcgct 297

<210> 37552
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G10

<400> 37552

ggcacatcta tgcttcagct gatgctgcag tgccatctag cgatgagatg cagaataact 60

atcaagaata tgtgaagctg aaagcacgag ttgaggtttt acaacactcg caaaggaatc 120

ttcttggtga agaactggct ccacttagcc caagtgaact tgaccagctt gagagtcaag 180

tagacaagac cttgaagcaa ataagatcaa gaaagactca ggtgttactt gatgaacttt 240

gcgacttaaa gagaaaggaa caaatgctgc aagacgctaa cagggttctg aaaaggaagc 300

tgcacgagtt tgaggcagag gctgcttctc ccccacaatt ggcgtggcaa ggcggaggcg 360

gcatgttgtc ccatgaccct tcacagccag aacacttctt cgtggctctg gagagcaacg 420

cgcctctgca acctacatac catactatgg acatg 455

<210> 37553
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H9

<400> 37553

ctcgagaggc acctgatctt tccttcccgt gttcctccca cacgtcccca tcaccattgc 60

tgcgacgaga gtgagcggga gagggtaggt ggcgaggcgg cggacatggg gcggctgccg 120

gtgcagctgc gccggatcga gaacaagatc aaccggctgg tgaccttctc caagcgcctg 180

aacgggctgc tgaagaatgc ccacgagatc ttcgtgctct gcgacgcaga tgtcgggctc 240

atcgtcttct gcactaacgt gaagctctac gagtactcta ggcattccag catggatggc 300

attctcgagc gttaccaacg ttactcatt 329

<210> 37554
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-G11

<400> 37554

cccacgcgtc cgcccacgcg tccgcggact cgtgggcttc gccacgaaca aaagcgcatc 60

gatctcgctg tcgtcactcc tcgtcaccca gccacgaaca gaggcaccac ccagcatggc 120

cctgcaggcg gcgctcctcc catccaccct ctcatccgtc cccaagaagt gcagcctcgc 180

cgtcgcggcg aaggacacgg cattccttag cgtatcccag aagaaggtgc aggcggcgtc 240

gctgtcggtg agaacgcggg tggcgacgac ggcgcctgtg gccacgccgg ggtccagcac 300

ggcggccaag gatgggaaga agaccgtgcg gcagggcgtg gtggtgatca cgggcgcgtc 360

gtcggggttg ggcctggcgg cggccaaggc gctggcggag accggcaagt ggcacgtggt 420

gat 423

<210> 37555
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D6

<400> 37555

cagagtcact tcgccacgaa caaatgcgca tcgatctcgc tgtcgtcact cctcgtcacc 60

cagccacgaa cagaggcacc acccagcatg gccctgcagg cggcgctcct cccatccacc 120

ctctcatccg tccccaagaa gtgcagcctc gccgtcgcgg cgaaggacac ggcattcctt 180

agcgtatccc agaagaaggt gcaggcggcg tcgctgtcgg tgagaacgcg ggtggcgacg 240

acggcgcctg tggccacgcc ggggtccagc acggcggcca aggatgggaa gaagaccgtg 300

cggcagggcg tggtggtgat cacgggcgcg tcgtcggggt tgggcctggc ggcggccaag 360

gcgctggcgg agacc 375

<210> 37556
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A5

<400> 37556

cggacgcgtg ggctgtcggt gagatcgctt gtggcgacga cggcgcctgt ggccacgccg 60

gggtccagca cggcggccaa ggatgggaag aagaccgtgc ggcagggcgt ggtggtgatc 120

acgggcgcgt cgtcggggtt gggcctggcg gcggccaagg cgctggcgga gaccggcaag 180

tggcacgtgg tgatggcctg ccgcgacttc ctcaaggcgg ccaaggcggc caagggcgcc 240

ggcatggcgg acggcagcta caccatcatg cacctggacc tggccttcct cgacagcgtg 300

cggcagttcg tggacagctt ccggcgcgcc ggcatgccgc tcgactcgct cg 352

<210> 37557
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F6

<400> 37557

actgtttaca cactcaatca atctgggatt tgagcggatc aggacacccg tgaaaattag 60

ctctccaggt tggaagtatt ctcactggga aatgaaaggt gttccattga gaattgagat 120

tggtccaaaa gatctggcaa acaaacaggt acgcattgtc cgccgggaca acggtgcaaa 180

ggttgacatt ccggtgacca atttggttga agatgttaaa gtgttattgg atgagattca 240

aaaaaatctg ttcaaaacag ctcaagaaag gagagatgca tgtgttcagg tcgtcaactc 300

ttgggatgaa ttcacaactg ctctgaataa caaaaggttg atcttggctc cttggtgcga 360

tgaggaggaa gtt 373

<210> 37558
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C4

<400> 37558

ggtttgcagg cgttgtcttc cggattttgg tccactacac tggtcagcct cttcttggag 60

ctaaagttgt agcctccatg ctgatgtttg cgacggtcgc tgggattctc atggcactct 120

tcttgaacac tgctggcggc gcctgggata atgcacagaa gtacattgag actggcgctc 180

ttggtggcaa gggcagcgag tcccacaagg ctgcggttac tggcgacacg gttggagacc 240

cattcaaaga cactgctgga ccgtcgctgc atgttcttat caagatgctc gccacaatca 300

cgctggtcat ggctccgata ttcttgtgat taaccaacca ctcatcaagc ttgctattaa 360

ccctgcggag atgtacctat gcgaccaggt agatgaggtg tgtgtgtgtg tgtgttacct 420

gcatgtgatg atgta 435

<210> 37559
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-F4

<400> 37559

cggacgcgtg cgctcacgtg gttgagtctc ctatttgcag caaggttaag tacgacggcg 60

acagggcatc tggtctgatc aaggtggacc gtgttcttta ttcctctgtt gtttacccac 120

ataactatgg cttcattcca ctgcacactc tgtgaggata acgacccccc ggatgtcctc 180

atactgatgc aggaacaagt tgtccctgtg tgattcctgc gagctcgtgc tattgggctc 240

atgcctatga tcgatcaggt ctagtgtctt cgtcacctga tcgcatagtg cttgctatgt 300

ttaccttagg ccatatattt tt 322

<210> 37560
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D9

<400> 37560

atttagaagc gcccctcctc ctctcccccc tccgtaccca atctaatcga cacccggccg 60

agatgggccg caagttcttc gttggtggca actggaaatg caatggaacc gcagatcagg 120

ttgagaagat tgtcaaaacc ctgaatgaag gaaatgttcc ctcttcagat gttgttgagg 180

tcgttgtcag tcctccttat gtgttcctcc cggtggtcaa gagccagctg cgccaagagt 240

tccaagttgc tgcttagaac tgctgggtga ataagggagg tgcattcact ggtgaaatta 300

gtgctgaaat gctcgtcaac cttggcgttc cctgggtcat tcttggacac tctgaaagga 360

gagctctgct gggagaatca aatgagtttg ttggagacaa ggttggcttt gctctgtcta 420

agggactaaa ggtcattgca tgtgttggtg 450

<210> 37561
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-C4

<400> 37561

tcggccacgc cgttcgccac gcgttcgctt ggacactctt aaaggagagc tcttcttgga 60

gaatcaaatg aatttgttgg agacaaagtt gcgtatgccc tgtctcaggg actaaaggtc 120

attgcatgtg ttggtgagac acttgagcag aaggaggctg ggtctaccat ggaggttggt 180

gctgcacaaa caaaagcaat tgctgagaag atcaaggact ggagcaacgt agttgttgcc 240

tatgaaccag tttgggctat tggaact 267

<210> 37562
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D9

<400> 37562

gagaagcagc acaagcacaa gcagcacctc ggcgaggccg gcgccatcgc cgtcggcgcg 60

ttcgcgctct acgagaagca cgaggcgaag aaggacccgg agcacgcgca ccgacacaag 120

atcgaggagg aggtcgcggc ggcggcggcc gtcggctccg gcggcttcgg cttccacgag 180

caccacgaga agaagaagga ccacaaggag gccgaggagg tcggcagcta gaagaagcac 240

caattcttcg gctagctgac tgatcctccc atatcgatcg tcgtgcctgc ccgcttgcta 300

cacctgcgtg tgagagtgat ctcgagcgcc ggccggcctg cacacgcgac gtgttgggcg 360

tacgtacgga cggatacatg tatgtatgta tatgcgcacg tgtgatgcac gaataagcg 419

<210> 37563
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-E1

<400> 37563

cggacgcgtg ggtccgctag ggtttctccc aaaatcgccg ccgcagccgc cgccgccatc 60

agccatggcc gctgacactt cgaagccctt cttccccgcg gcgccgcact cggctctccg 120

cccctccagg agcgccgnct cgcgcgcgtt ccctgagagc tcctactggc gcgccttccg 180

ctcctcggag ctcttgtccg acgccggctt ccccgtcacc gatctcacct tcgcctcctc 240

tgtggaagac agagctgccc ctaccctcgc cgcttcctgg tccacctacg tgcacgtctt 300

cttcttcgac cccctcgaga agctccgtag gatctctgtc gcgggcgatc tagccttctt 360

ccc 363

<210> 37564
<211> 180

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E11

<400> 37564

ctcctcaacc tccagcccaa cctccagccc ggaatcgaga gcaatggcgc tcgccaaggc 60

caaggagatc gttgccttcg ctcccctcgt cctcttcagc aaaacttcct gccctttctg 120

cgtccgcgtg aaacacatgt tcgagaaact ctgagcaagc tacaaagcca tttagattgg 180

<210> 37565
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E12

<400> 37565

gaggaggagg agggcagacg ccggcgccgc ggcggtggcg cctggcggac gagcggtgtg 60

acctgcgcgc catggagacg gactacgtgc ggcggtttca ccggcacgag ccccgcgaac 120

accagtgctc ctccgccgtc gccaagcaca tcaaggcgcc cgtccacctc gtctggtctc 180

tagtgaggcg gtttgatcaa ccacagcttt tcaagccctt tgtgagccgg tgtgaaatga 240

agggcaacat tgagattggc agtgtcaggg aggttaatgt aaagtctggg ctgccagcca 300

caagaagcac ggagaggctg gaactgttag atgacaatga gcacatactc agcgtcagat 360

ttgttggaag tgatcacagg ctgcagaact actca 395

<210> 37566
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E2

<400> 37566

cggacgcgtg ggagcctcca aaacctcgca acaaccccgt gacacccaca cccatccgcg 60

ctgcccctcc tcgcgctccc caccaacccc gacgagcggc gatgaccggc acggtgtcca 120

agctggcggc gccccggcct gcggcgccac cgctccggcc ggcgtccctc cgcgccgccg 180

caatcgcctt cgcccccctcc ccgcgccggg tccgcgtctc cgtcgccggg cgggccagga 240

tcccctccgt cattgcgatg gcttctgcca aggaaggaaa tggtgcaccg accaagaaaa 300

cctcgcttca cgatctctac gagctccagg gcctctcccc gtggtatgac aacctctgcc 360

gacctgtcac cgacttgctt gcccttatcg gcagcggtgt tcgtggagtc accagcaacc 420

ctacaattt 429

<210> 37567
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-E3

<400> 37567

ctcgcatact ccccacgccg ccgccgctcg acggagccag gctcgcagcc gctccgccgc 60

aaggtgtcag cacccatcgt ggtcaactct atcttcgtct ccccatgcgt gctcgccaga 120

tcccccctctg tctccagtcc accaccgtgg tcgggcccgc tcgcctcctc cgtcgacctc 180

atccgctggc tcccttcctc ctcgtcgtcg ccgtcatcag ccacggcccc acctccggcc 240

ccttcgtctc tcacatcctc ctccccttct ccgaccccgt cttccggctc gcctccgtcc 300

cgctcccgtt cgtgagcgag agggcaactt atgtgttatt tcaggcagtg taaatttgtc 360

agttccgatg tgggaaaaga atttttcaac ggatgctngt gctatcccct gggctaaact 420

gtgtgagacc aaaggattga tgtctctg 448

<210> 37568
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E4

<400> 37568

ctctcatcgg cacacccgag ctcgcgccct ccttccacgt cgaggtccga gtcctgctgt 60

gatggcgacc gacgtgactg agactcccgc gccgttggtg gatgcggccc cagaggcgcc 120

cgccgacgcc ccggcggcgc ctgctgccga cgcgaagccg gccaaggcca agaaggccac 180

cgcgccgaag aagcgcgcca gcccgaccca cccgccgtac gccgagatgg tctcggaggc 240

gatcacgtcg ctcaaggaga ggacggggtc cagcagctac gcgattgcca agttcgtgga 300

ggacaagcac aaggccaagc tcccgcccaa cttccgcaag cttctgaacg ttcagctcaa 360

gaagctcgtc gccggcggca agctgaccaa ggtgaagaac tcgtacaagc tgtcg 415

<210> 37569
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E5

<400> 37569

gacatgaccg tcggcggcgc cccggcgggc cggatcgtga tggagctgta cgccaacgag 60

gtgcccaaga ccgcggagaa ctttcgcgcg ctgtgcacgg gcgagaaggg cgtgggcaag 120

tccgggaagc cgctccacta caagggctcc accttccacc gcgtcatccc cgagttcatg 180

tgccagggct gcgacttcac ccgcggcaac ggcaccggcg gcgagtccat ctacggcgag 240

aagttccccg acgagaagtt cgtgcgcaag cacaccgccc ccggtgtgct ctccatggcc 300

aacgccgggc ccaacaccaa cggctcccag ttcttcatct gcaccgtcgc gacccccttgg 360

ctcgacggca agcacgtcgt cttcggccag gtcgtcgaag gcatggacg 409

<210> 37570
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E6

<400> 37570

cagctcgcca agtcccacgc aaccgtgctg ctccctcgtc gtcgtccgtt cctactttgc 60

cccgtcctat gccgcctcgc tttgatgtgt gtcgtcatct ttaatcccag taactcttcc 120

gatacgcgtc ttgtcatgtt tcacctcgtg gtcagcccca tctgggtcat gggggcggaa 180

gatctcaaca ctgcttcata tggctgtttt agatgttgtt tgcggggtag agaaagttat 240

tgtgataaat gattttcgcc ctctcatcac attcgcaatc ctcgtcaatc atcgctggtt 300

tgagagaaat taccataaga tatggagaag aaagtgaagc cgcaccacac cgtcaggtgt 360

tcaacgacat gctcgagcca ggatttatca gcattcttgt gagtagtgag tcatgtttga 420

tgctgggtag ttgaatttat ttttctta 448

<210> 37571
<211> 344
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-E7

<400> 37571

agcattttcc caatttccca aattccttct tggttggtgg accagcagat tactttgtaa 60

ttgaactcgc tgatcagctt caaaagctaa aaattgagcc agtactacta cactacctct 120

cccgcatgag catacttcaa gggttggaac tgaggttgag tacaagcacc agactaaagg 180

cctgcctcta cagcttcact tctcctggtg gccctaccta cccaacacgg gctgttcgan 240

gnncannnnn ntnnagcnng anagcnccan cnncagatgc agatgcagca attgcaactt 300

atgcatcaga gacatgctca actttaacga actaacgcga atca 344

<210> 37572
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E8

<400> 37572

tcgtaggtag accacgtgct cgcaaccttg tttttctcta ggtccgagtc ctgctgggat 60

ggcgacccac atgactgata cttctgctcc gtttgtggat gcttaatcac aggagctctt 120

ct 122

<210> 37573
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E9

<400> 37573

cccacgcgtc cgcaagcttg tcgtatcaac ttcctgctcg ctcatgcaca ccgctgtgga 60

tcttgtgaac gagactaagc ttgacagcga gattaagtct tggcttgctt ttgctgccca 120

gaaggttgtt gaggttgatg ctcttgctaa ggcattggct ggtcaaaagg atgaggctta 180

cttcgcagca aatgctgctg ctcaggcctc gaggaaatcc tcaccccgtg tgaccaatga 240

agaagtccag aaggctgctg ctgctctcaa gggctctgac caccgccgtg ggaccaacgt 300

tagtgctaga ttggatgccc agcagaagaa gcttaacctc cccatccttc ccaccactac 360

aatc 364

<210> 37574
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F1

<400> 37574

gcagaatggc gcagagcaac tgggaagcgg ataagatgct cgacgtgtat atctatgact 60

acctgctgaa gaggaacctg cagacgacgg ccaaggcttt catgaccgag ggaaaggttg 120

ctgctgatcc agttgcaatt gatgctcctg gagggtttct ctttgagtgg tggtctgtct 180

tttgggatat attcatcgca aggacaaatg aaaagcattc tgaagttgca gcggcatatc 240

tagaggcaca gcaaataaaa gcaagagagc accagcagca gatgcagatg cagcaattgc 300

aacttatgca tcaaagacat gctcaacttc agcgaactaa cgcgaatcat ccttcactta 360

atggtccaat aaatgcttta aattctgagg gcattttggg gccatcaaca gctagtgtct 420

tagctgccaa gatgtatgaa gagcgattga agc 453

<210> 37575
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-F10

<400> 37575

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggcg gacgcgtggg 60

cttggctccc caagcctcga cgcccggcta gggttttgcc tccttcccgc cgccgctgtt 120

tcagcgagcg agaccgaggg gtagagaaag agcggtgctt agccacccat gtcgctgcgt 180

ccgagcgagc gggtcgaggt acggcggaac cgctacaagg tggcggttga cgcggaggag 240

gggcggcggc ggcgcgagga caatatggtg gagatccgca agagccgccg tgaggagagc 300

ctnctcaaga ggcgccgtga ggggctccag gcccaggtcc ctgcccctcc ctccggngtt 360

gagaagaagc ttgaaagcct cccagctatg gttagtgggg tttattcgga tgataataac 420

cttcagcttg aggccaccac acag 444

<210> 37576
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F3

<400> 37576

gtgatatggt tcttgcttct gcctactcgc atgagttgcc acgatatggt cttgaagttg 60

gtctgaccaa ctatgcagct gcctactgca ctggccttct gttggctcgc cgtgtgctca 120

agatccgtgg tttggatcag gagtacgagg gcaatgttga ggccactggt gaggacttct 180

ctgttgagcc agctgatgag aggaggcctt tccgtgctct cttggatgtt ggccttatca 240

ggactacaac agggaaccgt gtctttggtg ccctcaaggg agcattggat ggaggcctgg 300

atattcctca cagcgagaag aggtttgctg gattcaagaa ggacgacaag cagttggatg 360

ctgataccca ccgcaggtac atctatggtg gccatgttgc tgactacatg aagaaccttg 420

ct 422

<210> 37577
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F4

<400> 37577

ctgcggggca acatcggcgc gatccggtgc atccgctact cctccgatgg gcggttcctg 60

gtgttctcgg agcctgccga cttcgtccat gtgtacagtg tggctgcgga ctacaagaaa 120

cggcaggaga tcgacttctt tggtgaggtg tccgggatca cgctgagccc ggacgacgag 180

tccctgttca tcggagtgtg cgaccgcgtc tatgccagcc tgttgcagta caggatgatc 240

cgcggattcg actatcttga ctcatacgtg tgaagaactg agctttggtg accggtgttg 300

tgctaggtgc tggctgaagg ttctgatgcg cggttcaggg aatatatctg cctgctctta 360

gttcatggcg aatgatggtt cggtgggact cgacgccagc gaatctgccg tgtaaatagt 420

ttagaatttg aagcgtaat 439

<210> 37578
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D8

<400> 37578

ggatcttcaa aaaaccaagg ataaggcctc caagaactag gcgatatagg catcttccac 60

aatgtttaag tcccttagaa tttgtttcag caagaaattt tctcgtgggt ttggggaatc 120

ctgatactta cacaagatat gcgagatgat atggtttaaa ttttgaacgg aagttgcgga 180

tccttttatt ttttaaaatc tcggtgcaat gtttatcaaa aaaaaaaaaa agaaaataca 240

tgtacgagtg cactttcaaa agaaataaa 269

<210> 37579
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C4

<400> 37579

cccacgcgtc cgtgttgttt ctcaatatgg acagcagatc ctagatcttt tgctagctga 60

gacacaacca gcgaagatct gttctcaggt tggtctgtgc acttttgatg gcacccatgg 120

tgtcagcgct ggaattcgga gcgtagtgga tgatgaagct gggaaatcaa atggtggtct 180

caagagtgat ccaatgtgca atgcttgtga gatggctgtg gtatggatgc agaaccaact 240

tgcccagaac aagacacagg agctcatcct gaactacatt aatcagcttt gcgagcgtct 300

tccgagtccg atgggagaat cagccgtgga ctgtggcagt cttgcgtcca tgcctgacat 360

tgcgttcacc attggaggca agaagttcaa gctgaaacca gagcagtaca ttctgaaggt 420

tggtgaagga caggctgccc agtgcatcag cggattc 457

<210> 37580
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-C5

<400> 37580

caagaagaag atcgaggacg ccatcgacgc ggccatcagc tggctggacg ccaaccagct 60

cgccgaggcg gacgagttcg atgacaagat gaaggagctg gagagccttt gcaaccccat 120

catcgccaag atgtaccagg gcgcgggtgc cgacatgggt ggcgccggcg gcatggacga 180

ggacgctccg gctggaagcg gtggccctgg ccccaagatc gaggaggtgg actaagcgga 240

ttgtgtcagt ctcgtgtgtc tgctgcagtg gctggctggc ccagtcgctg ctcgatttat 300

cgtcgtcgtc gcggtgtatc cgcgttagaa ccttttgttg gtgaacaata ttatcgtggc 360

acgcgtttta agtaatacgg tattctggtt cggtttaaaa aaaaaaaaan aaaaaaaaaa 420

tttaaaaaat aatttaatat t 441

<210> 37581
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C6

<400> 37581

gcaccagttt ggctcgtctc ggcctcggcg cgtgcccccg acccgttgct gaccccgctc 60

cccggtgatc tgatgtcggc ggcggcacgc gcgccaccgc cgccgcgcgc actctacgcg 120

ccgtcgagaa gagtcccttt cggtgccgtg atcctatccg cgccgcgacc cggggctagg 180

gttcgcgcgg cgcggcctcg cgaggggaat gttcataacc attgcctgtt gacatcgtct 240

agtctgaatt caagttcttt gctatgccct ccatgcaatt gtgctcaaat ggctttggcc 300

gacacaagaa ttgcttacca gcctgaagtt gacaagcatg ctggagttct ggcctatgaa 360

ctggttcaag ggaatcttgt tcagtggaat tcatttatgg acaaatcaat acctgatcca 420

ccaacagctg ttcttcttca tggcatcctt ggg 453

<210> 37582
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C7

<400> 37582

cccacgcgtc cggtctgcac ggatgggcct tcaccctcac taactttgca aagatgtatg 60

catctaagtt tggagttgat gaaactaaga tgatggagag gctatggggt gagaacttct 120

ttgaccctgc cacaaagaag tggaccacca agaacacagg ttctcctacc tgcaagagag 180

gatttgttca gttctgctat gagccaatca agcaaatcat caagacctgc atgaatgacc 240

agaaggagaa attatggccc atgctgcaaa agctcaatgt taccatgaag gctgatgaga 300

aggagttgat tggcaaagct ttgatgaagc gtgttatgca aacgtggctt ccagctagca 360

ctgctctgct tgagatgatg atattccacc ttccttcccc agcaaaggct caaaagtatc 420

gtgtggagaa cttgtacgag ggacccccttg atgatg 456

<210> 37583
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C8

<400> 37583

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa 60

ggaaagaaaa acgaatttga agtcacctag attccgtaca cttgcatacg aggtcatggc 120

ttttgtgttg ggaaacctga acgcaattga ataggccgct tgtttacaac aaccggggtg 180

tcaaaagtta tactgtgcgc aatgcatgtt ccatggctga catatggatt cacaacgaag 240

tcgcccatac caaagcgccc tgagcccaat ctccattgcc ttcattagct ctgcccgcat 300

ggtgcatggc ccatggccga ttccggcgct ttctgc 336

<210> 37584
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C9

<400> 37584

cccacgcgtc cgctcaatga cccatcgata agagagatgg ctgagcaaat tgcaagtgac 60

cctgtgttca accagatggc tgaacagctt cagaaaagtg ctcagggtgc tggagaacag 120

ggtattcctg cattggatcc tcaacagtat atggaaacaa tgcaacaagt catgcaaaac 180

cctcagtttg tgtcaatggc agagcgtctt gggaatgccc ttatgcagga tcctgctatg 240

tccagtatgc ttgagaactt gaccagtcca gctcataagg agcagcttga ggagaggatg 300

gcccgtatca aggaagatcc atccttgaag ccaattcttg atgagataga gaatgggggt 360

ccatctgcaa tggtgaagta ttggaatgac cctgaggttc ttcaaaagat tggccaggca 420

atgggtgtta acc 433

<210> 37585
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D1

<400> 37585

gttcgttctt gattcttgga cgaggtggga tttggagagc caagggcggc gcggcagcgg 60

cgggtttctc ggtcggacta gattgtttcc atcgagatgg tgccatggtg ggcggcggag 120

ggcattcgtc gatggaccac cctggcgcca aggacgatgg agacggggaa gaaagccagt 180

acttctcgga cgcggaggac cggtcgtggc cgtcgcactc gcgccacgac tccaccgcct 240

acgaggacta cgtctcgctg tgcgtgtccg cccgcgcgag ctccgtcgac gccgacgccg 300

atgccgacgg cgaggccgtc agacaacact gcaggaagtc gtcgtgcgtg tcagagggct 360

cgctggacga cgttgacctg gaggccggac tgagcgagat catcaaggcc agccctgaga 420

aggccgaaca gaactgtcgc at 442

<210> 37586
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D10

<400> 37586

gggaggggtt gataggactc atgcgcctaa ttcttgtagt ggaattcaac caattgattg 60

ctatttggga ctgccgattt gtgatcctgt taccacagtc ttcttgcggg ccagaaacgc 120

gaatcacgat ggttccagga atcgccccca agacggcggc gcgaccggtg gcctgggcac 180

ctcagcctcg gaacatgttc gtgttcggcg caggtttcgt cggccgctac gtttcggagc 240

gcctcctcgc gcaaggctgg caggtctccg ggacgtgcac cactgtcacc acgaagaggg 300

agctagagat gctgggcatg aatgcttccg ttttcgatgg cacagaagac agcctggaaa 360

atattcacag tttacgacaa gcaac 385

<210> 37587
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D11

<400> 37587

cccacgcgtc cgggcccccc cctcggcgag acgtctactt tctcgaggcg tacagtgacc 60

gctcacctct cgggcgtgcc tagctcgtca tcggtctcca atgccacgtt cgtgctacta 120

ctccaatcgt tgctgacccg tgtgatctcc actgacttcc gcaaggagtg cgggcacctt 180

cggtcccatc cgatgttaag gcttacctcg cttatggtgt tccacagagt gacatgaaac 240

tgtaatcact tatgcaaaag ttgctagacc agcggcagag catgaacata tggcgctttg 300

tacatacaat gaatactgtt gggaccatgc ttcgtcgccg aaggtcctgc aaaaagaaac 360

agcttcggct gaaggtgctt gaacatgctg ccgaagacac agttcacgaa gcttcggaac 420

tacaacatat ccaaagacg 439

<210> 37588
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D12

<400> 37588

cattattgcc gtctcccttt tgcgtgagca aagaaagaga gcgagaagag cagtcgccat 60

gtctggcatc atccacatga tcgaggagaa gctccacatg gggggcgacc acaagaagga 120

ggatgagcac cacaagaagg ccgaggagca ccacaagaag gaggaggggg agcaccacaa 180

gaaggacggc ggggagcata aggaaggcat cgtggagaag atcaaggaca agatcaccgg 240

cgagcacggc gacaagtccg gcgaccacaa gg 272

<210> 37589
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D3

<400> 37589

gagatcctga ggaagaaggg gcactcctac tctgagatca tcaacgagag cgtgattgag 60

tcggtggact cgctgaaccc gttcatgcac gcccgtgggg tcgccttcat ggtggacaac 120

tgctccacaa cggctcgcct gggatccagg aagtgggcgc ctcgcttcga ctacatcctg 180

acgcagcagg cctttgtggc ggtggacaag gacgccccga tcaaccagga cctcatcagc 240

aacttcttgt cggaccctgt ccatggtgcc attgaagtct gcgccgagct gaagcccacc 300

gtcgacatct ctgtgcctgc caacgccgac tttgtgcgcc cggagctccg gcagtcttcc 360

tagattgaag caatgagcgg agagggagag ggagagagaa agagaggatt tcgtgtcccg 420

agttag 426

<210> 37590
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D4

<400> 37590

cccacgcgtc cggcatcgaa acatggtaga taaataaagg acttgacgat ttgtaacgca 60

gtagctggtg cgtgcgtggt gtggtggtaa gaaattcttc tgctgcctgt gttcttgtag 120

cctcctcgtc ctcgcccacc ctgttggtac gtgtacggtg tacgtagtct gccgccgcgc 180

gctgttcgtg ttcgtcgtgt ctcgtgtctg tattatactc gtcctcccca tcaaaaaaaa 240

agttgttcca tgtacgtgtg cactgtcgag tgatgtttgg ctggacgtga tcgtgattac 300

tcctggaaac tatccggcgc gtgcagatcg 330

<210> 37591
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D5

<400> 37591

cgggcgtgcg gccctcggtc ggcatgggcg cgcggcggcc atgacggctc gaacgcggta 60

gccacggccc cgacgtctcc cgtcccggcg cgtcaccccg tggtgcggcg gcccccggcc 120

tcaacggctc ggaggcgcga ctccctgcga cgcgcggcct cttggcccca gcggctcggg 180

cgtgggtgcc cacggcgcgc ggcccccccgg cccctgcggc acgggcgcga ctgcctgcga 240

cgcgcggccc cccctgcccc ggcggctcgg gcgagggccc ccgacgcgca ctggtgaggc 300

gcggcagcct gcggcgcttg ggcactgtgg ccggccaggc gggccacagc cagcgcgggc 360

gcgcagcccc gcggccttag agccggcccc gcttatacac ggg 403

<210> 37592
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D6

<400> 37592

cagtgacacg cacggctact tttgcggact tccatacgtc tgacccgcgg gggccacttc 60

caaccttgcc gtgacccgaa tggccccaga tggaaacttg gcagcaactt ccagcttgcc 120

tgaaaggctg atagtgcata tacgc 145

<210> 37593
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D7

<400> 37593

cccacgcgtc cgcgtttgca aacattagga tcgtgaacaa gtttttgaac ggagaagttg 60

gacccaagac cattcatgtt cctactgggg agaagctttc tgtttttgat gcggccatga 120

gatacaaatc tgagggccat gctactataa tcctcgctgg tgctgagtat ggaagcggca 180

gttctcgtga ttgggctgct aagggtccga tgctcctggg agttaaagct gtaattgcca 240

agagctttga gcgtatccac agaagcaact tggtggggat gggaatcatt cctctgtgct 300

tcaaagctgg tgaggatgct gattcgcttg gcctcactgg acatgagcgg tacagcatcg 360

atctccctac caacctcagt gagatccgtc ccggccagga tgtgactgtt actaccgaca 420

atgggaaatc tttcac 436

<210> 37594
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C3

<400> 37594

gaaaatctcg gtgaagttct tcgtggagat cgcattgaaa actctcccta tacgtttgaa 60

atgagggagc ctcagatgtg tcaagtagtc tgcaagatat ctgttgggga gaaagaagca 120

aagcttctca aggagaagat tgaagatgaa taccgtgtta acatgattct tgacaaccta 180

cctttagtcg ttcctattca aagagtggat caagaaggtg catatttcta tcaacatgga 240

ttccatgttg gggccaaagg aaaatattca gggagcaaag atgaaaaata cttcatccac 300

aaccatctat cttttacggt gaaatatcac agggatgagc aaagggatgt ttccaggatt 360

gtggcctttg aagtgaaacc atacagcgtt aagcatgaat atgaagggca atggaatgat 420

aagaagaccc ggctgacaac gtgtgaccct catgc 455

<210> 37595
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-B1

<400> 37595

cggacgcgtg ggcaatggca gcaacggcga gcacatctcc acccgcccgc cgccgacccc 60

gtcgcccctc cgcttctcca agttcttcca ggctaacctg cggatcctgg tcactggtgg 120

ggcgggcttc atcggctcgc acctcgtgga caggctcatg gagaacgaga agcacgaggt 180

cattgttgct gataactttt tcaccggttc aaaagataac ctgaagaagt ggatcggaca 240

cccaagattt gagctcatcc gccatgatgt cactgagcca cttcttgtgg aggttgacca 300

gatctatcac cttgcttgcc ctgcttcacc aatcttctac aagcacaatc ctgttaagac 360

catcaagaca aatgttattg gtaccctgaa catgctggga cttgcaaaga gagttggagc 420

taggatttnt gtgacatcaa catctg 446

<210> 37596
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-B10

<400> 37596

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgcc cacgcgtccg 60

cccacgcgtc cgcccacgcg tccgcggacg cgtgggatcg tcttcctccc ctcacatcct 120

ctggcctctg gtcctccacc gtcctgctag ccagagctgc tcttgtacgc gcagctggcc 180

tctgtgcata tcaccagcac accgcgcagg ggaaggaaat taacaagaga aaaggcaagg 240

agagcaggca ggcaaggaag ctgcagaagc caaggaagga gaaggaggat catcaatgag 300

catctcggtg aacgggcagt cgtgcgtgcc gccggggttc cgcttccacc ccacggagga 360

ggagctgctc aactactacc tncgcaagaa ggtggcctcc caggagatcg acctcgacgt 420

catccgcgac gtcgacctca acaagctcga gc 452

<210> 37597
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-B11

<400> 37597

gatccatctc actctccgct ggtcgctcac tcttgcagct ccacccttca ctcagtctta 60

gtctcttatt agctctaggc tctagctagc cgcgccactc cttcgtgtag ccatcagcct 120

tctcatcgcc accaatggcc actgccgagg tccagacccc gaccgtcgtg gcggccgagg 180

aagcgcccgt ggtggagacc ccgccgccgg ccgtcgtgcc cgaggagtct gcccccgccg 240

aggccgaggc cgaggccgag gctgctgctc ctgctgatcc cgaggagctt cccgcggccg 300

agcagcaggc agccgccgag gcggaggccg cggctcctgc tggtgccgag gagcccgtcg 360

cggccgaacc ggccgncgag gcggaggctg ctgctcctgc tggtcccgag gagactcctg 420

cggtcgagc 429

<210> 37598
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-B12

<400> 37598

cggacgcgtg ggaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaagaaaa 60

gggatataaa aaaactcaaa attaaaaaaa aaaaaataca aaaaataaaa atataaataa 120

aaataacaaa aaaaaaggtt taccgtttta cagtttccaa gtttacgact ggaaaaaccc 180

aggtgttacc tattttattg ggcacccaaa aaaaaatcct tttgccagtt ttttaaaaaa 240

ctcaaaaggg caaaaccttt ggcttttcca aataattcgc tattctgaat attcattttt 300

accccccttt taaagtacca taaaagcccc aagcaatggc ttttccaa 348

<210> 37599
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-B2

<400> 37599

ttcccgctcg accacgcgtc cgtttttcgt ccactttatt actgatcgca tgcatctgag 60

cacggctgct accagaaagg gcaggttcga tcggtctagt gtgaactcgg ctttgaataa 120

ctagtctgtg gacaagggct agttcggtga tgtgtatgga acggtcgtca ctgagtcatg 180

cacgatttgg tatccacgtg attatggtcg acggtttgag gaactctctg atccatcatg 240

acacaaagtt gatgctgcgc gaacgaccgg atatcattct 280

<210> 37600
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-B3

<400> 37600

cccacgcgtc cgcaagtttc taccaggcat tgtgtcagtt aggaatggtc catcctgata 60

gactaaaatc agaagaaatt gaggagttgt ggagtgaagc tgaccgtgat ggcgatggtg 120

ttattaacta caaagaattt cagtgcatct ggagcccaaa ctgctgtagt caagaggagg 180

aggatactga aattgacatc actgatgaaa gtctggacac ttttgaggca aacaacgaag 240

ccttcggctt caccgtgaag gaagctgttc tctttccccc agaagtagag aagggcatgt 300

ggccagaaaa ctacagcctc tcagatcatg ctcccctcac tgtggtattc tcccctatta 360

gaatgccttg ctctccacgc aatcgtgggg agctctagct atctaatgtc aatgatctca 420

tgtatacata tacatgcccc acgaaatcgg tgttagattt gg 462

<210> 37601
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-B5

<400> 37601

cccacgcgtc cgcggacgcg tgggctgatg atgatgggat cacaaaagct tgcagctgtc 60

ctttgcttcc actgaaaact catatcaagg gcccggcacc agcctctgac cctgataaag 120

cggacattgt tgatgaagcc ataactttct ttcgagccaa tgttttcttc aaaaatttcc 180

atgtgaaaag ctcagcagac aagttattga tctatctgac gttttatatc aatattgcct 240

taaaaagact agacggttgc cggacactag ctgttgggac taaagcaatc attaatctgg 300

gattggagaa agttcctgta cctggggaac cagggtttcc tttccctgga cttttcactc 360

ttccccagtc ccaggaggaa gcagaattgt tgaggaatta tttgaagcag ataacggagg 420

aaacaagtgg aagattgctc aactgtgcat acag 454

<210> 37602

<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-B7

<400> 37602

cccacgcgtc cgaccaagca gaccacaaca agaagaagcg tagtcgtcgc cggaaggaaa 60

ggcgcggagc aagatgtcgt ggcaggcgta cgtcgacgag cacctgatgt gcgagatcga 120

aggacagcat ctcagcgccg ccgccatcgt cggtcacgac ggcagcgttt gggcgcagtc 180

cgagagcttc cccgagttaa agcctgagga ggttgctggt atcataaagg actttgatga 240

acctggtact cttgcaccaa ctggtctttt cgttggaggt acaaagtaca tggtgatcca 300

aggtgaacct ggagttgtca tccgaggaaa gaagggcact gggggcatta ctatcaagaa 360

aaccggcatg tccttgatta ttggtgtcta cgacgagcca atgactccag ggcaatgcaa 420

catggtggtg gaaaggctcg gcgattacct gatcg 455

<210> 37603
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-B8

<400> 37603

gccagctact gcacggtgta caaggcgaag ctggcgagcg gcggcagcag catcgagctg 60

cgcctgctgc gggaaggcag ctgcaaggac gccgcgtcgt gcgcgcccgt tgtgcggcgc 120

atcggccgcg cgcgccacga gaacctggtc ccgcttaggg ccttctacca ggggaggcgc 180

ggcgagaagc tgctggtgta cgactacttc ccgcgcagcc ggacgctgca ggagctgctg 240

cacggtggca gcgagcccgc ggcggggcgg ccggcgctca cctgggggcg gcggcacaag 300

atcgcgctgg gcgcggcgcg cgcgctggcg tatctgcacg cgggccaggg cgaggcgcac 360

gggaacgtgc gctcgtccat cgtggtggtg gacgacctct tcgtgccgcg cctggcagag 420

tacgcggtgg accggctgct ggtgcccgcg gcgg 454

<210> 37604
<211> 395
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-B9

<400> 37604

aaagaatttt gctctactcg agaagcaagt tttacaagat tgtgtgaagt cgctgagcac 60

agaagagcat ataagtccag agtttgaacc acttcttggt tgtatgaagg cttacattca 120

tgagatgaag gatgaggaca ctgatcctat gagcgataaa gatgggaact gacatgtctg 180

caaagattgc tcttaatgtg caaccgctgc agtattgctg ccttgccggc attagtgctt 240

gtgcaagcca ttgctcgctt gcctgttcag agtgccctct gtgctcgaca agaatagcag 300

acaggataat cacattgaca tgaacggtgt gctagcttca agctattctg aagcatggcg 360

cactcttgta aaatggtcag cggtatatgt tacta 395

<210> 37605
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C1

<400> 37605

ctgacgcgtc cggcagtcac cactcccaag ccagttccga gtcctacgag cagtcgcacg 60

cacgtgtcaa gagacgagac ggtcgacatg gctcgcacgc aatctggcgt agcggtcgcc 120

gtggtggccg cggtgctgct gctggcagct ggggcgacaa ccgttgatgc ctgcatcacc 180

tgcgggcagg cgagctgcga catcgcgccc tgcctctgct acacccgctg aacggagtcc 240

ggccgcttcg ggtactgctg tagcggcgtc aggaacctct agagcgccgc cagctccgac 300

accgacaggc gcgccgcctg caac 324

<210> 37606
<211> 342
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-C10

<400> 37606

ccaacccagc tcgctcgtcc cagctgatca ggtcgagcac ctagtagcga cctgctcgat 60

catcagtgta gagtgtcggt aggtgtctgt ctctcttggt ggctggttgc aacggtcatg 120

gcgacgtcgt ctcgtcgggt gcccttgctg ctgctgtgcc tgggcgtgct ggtgtcctgc 180

tccttcgcgg cgggcagctt ggaccaggag ctggacatca cgtggggcga cgggcggggc 240

aaggtccttg acaacgggcg gctgctgacg ctgtcgctgg accgcacgtn cggcttcggg 300

ttccagtccc ggcacgagta cctgttcggc aagatcgaca tg 342

<210> 37607
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C11

<400> 37607

gagcggccga gatcaggctg ttccagcgga tggcgttcgg cagccaagat ttcacgacgg 60

atttcagcca gtccagctgg aacaacagcc agagcagagg tcttgatgcc tctggttcaa 120

ggccattgta atcctcctcc tcgttgtcgt cgtaaatttc gtagatctaa ctagctaggg 180

tgtttcgtga tgatttttt acctcgtgta attctttctg agtggatcaa tagtgattgt 240

tctttcgcc 249

<210> 37608
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C12

<400> 37608

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgcg gacgcgtggg 60

ttcacacttg atggacatca aaagggtgtc aattgtgttg actacttcac tggtggtgac 120

aggccctatt tgattactgg ttctgatgac tccactgcaa aggtctggga ttaccagacg 180

aaaagctgtg ttcagacact tgaagggcat acacataaca tttctgctgt ttgtttccat 240

cctgagctcc ctataatcat tactggatcc gaagatggta cagttcgtat atggcattca 300

acaacttaca gacttgagaa cacactaaac tatggccttg agagagtctg ggctgttgga 360

tacatgaagg gatcaagaaa gatggtgatt ggttatgacg agggggccat tatgataaaa 420

atgggccgtg aagtacctat agcaagt 447

<210> 37609
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C2

<400> 37609

aaagaacttg ggcccgcctc tcgtctctta ccgcacatgc gcgtcggacc gcgtctacat 60

agctgcttgc cgtcgacacc cgcagccgca atggccgtcg cccacgcgcc gacgagccag 120

ggcgtgctac cgctcctgct cgtcgccgcg ctcgtggcgg cgttgtcggc cagctgcgcc 180

gcgggcagga gctagaagct gtacacggcc atgttgagct tcagagactc gctctgcgac 240

gccggctacc tcatcgggaa cggcacgccc aaggcgctta ccagcgcgcg cgctacctac 300

gggatgacct tgttacgaag cccacc 326

<210> 37610
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-A8

<400> 37610

cggacgcgtg gggccgtgac accatccttc acatacaaga caagcctgct ctgttcagaa 60

gcttcttcaa atggctaaag cccggtggca aagtcctaat cagcgactac tgtaagaatc 120

ctggaaaacc atcagaagaa tttgctgcgt acattaagca gagaggctat gaccttcacg 180

acgtgaaggc ttatggacag atgctgaagg atgctggttt tcataatgtc atcgcggaag 240

atcgcactga gcagttcttg aatgttctac agagggagct aggtgaagtt gaaaagaaca 300

aagacgcttt cctggcagac ttcacccagg aggactatga cgacattgtg aatggctgga 360

acgcgaagct gaaacggagc tctgccggcg agcagaggtg ggggttgttc attgccacca 420

agtgatttgg cctggcagca agagggctct tcg 453

<210> 37611
<211> 422

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-032-Q1-K1-H10

<400> 37611

aaaccgagaa gagaccaggc cgaaggaata caatcctgaa accaagccat gggtgagcag 60

gaggaatttg aggagcatgc tgagaaggca aagaccttgc ctgagagcac gagcaatgag 120

aacaagctga tcctctacgg gctctacaag caagccacgg ttggagatgt gaataccgat 180

cgtgcgggca tattctacca aatggacagg gccaagtggg atgcctggaa ggctgttgaa 240

ggcaaatcgt acgatgaggc gatgaatgac tacatcacca aggtgaagca gctccaggag 300

gaggctgccg nctcttaaaa ggatcttaat agcgttgccg aacagctatt tgtcagatga 360

gctttgtgcc atttactcat tagaagtata tcattcgatc cattggggat cctgtaacca 420

tg 422

<210> 37612
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-H11

<400> 37612

ctgtcctgtc gctccctcca ccacacactt ttactgaaca cgcgcgcgcg cacgccatta 60

cgctgccgta gcgtgcggtg tgccgtcaat tcaaaccacc aatagcaatg cctgcgacgt 120

ccgcaaactg cgccaccgcc ggcgtcgccg tcgcgaggga cgacatgtt 169

<210> 37613
<211> 313
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-032-Q1-K1-H12

<400> 37613

gcgccatgaa catcgacggc gacaacggtt tcgcctgcct caccaagatc tccggcgcct 60

gctccgcgtc cacggtctcg ccgctgcccc acatgttcgt cgtcaaggac ctggctggtg 120

gacatgacca acttctacag ccagtacaag agcgtcgagc catggctcaa gcgcaaggac 180

cagcccccgc agcaaggcaa ggagatcccg cagaccaagg ccgaccgggc caagctcgac 240

ngcatgtacg agtgcatcct ctgcgcctgc tgctccacct nctgcccgtc ctactggtgg 300

aaccccggag gag 313

<210> 37614
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-H2

<400> 37614

ggaggaagag gtgaaatggt gaaggccgtt acgtggctcc tcgatcggct cctctacgta 60

ctcaagcagg acaagggcaa cgacgccaac accgcgcgtg accgacggcg aaggaggcgt 120

gctccggccg gtggcgccgc caacgccgtt ggaaacgatg atggcgagga gcagcacctc 180

aacacctttc tcgacgctgc gaatgcgtcg tccgcctact caagggtgca gttcaggaat 240

atggcgtcgc gcgcgcggtg ggtggaggaa gccggcgctg cggaggtggt ggagaacagg 300

ggcaagctgt ggctgaccac cggtgtcact cgggccggca agctgtacta caacgttgag 360

gagaccgggt tcttggccga aatgggtgcc tggattcttc tcaatga 407

<210> 37615
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-H5

<400> 37615

cccacgcgtc cgcaaggact cgcgacggtt tgagcaacgg aggaagcaac tacgcggcag 60

ccatggtgaa cgtttcgaag accaagaaga cctactgtga gaacaaggaa tgcacgaagc 120

acacattgta caaggatacc cagtacaaga aaggtgagga tagcctttca gctcaaggga 180

agcgacgtta tgaccggaca cagcttggat atggtggtca gacatagact gt 232

<210> 37616
<211> 105

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-H6

<400> 37616

gcgtgtatca ctaggtacgc gtactcgtat cgttgtgttc agttctgggt ctatagagat 60

gtagccctgc attgtcgaaa taaatactgt gtccactcgt tcgtg 105

<210> 37617
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-H7

<400> 37617

gttctccgta ctggggttgc ggtttcttgt ctccctactg atgatcgctg cttggatcct 60

tctcaccaat accatcatca gttctggtct tttcctcctc ttgcacaacg tggtggcgga 120

cacgtgcgtc gcgatgggcg attgggtggc gcacccgcag gcgcacacgg cgctggacga 180

catcctcccg tgcgtggacg tggccactgc gaacgagtcg ctgtaccgga gccaggacgt 240

gacgtctcag ctggcggcgc tggtgaacaa cgtcgtcgtc aacatctcta accggaactt 300

cccgacgggg ctccgtccgc tctacttcaa ccagtcgggg ccgctcatgc ccgtgctctg 360

caacccgttc aacccggaca tgagccgacg ccggtgcgcg cccggcgagg tcgactttcg 420

cagcgcggcg cgggagtgga agcggttcga gtg 453

<210> 37618
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-H8

<400> 37618

tcggccacgc gtacggaaac tccgagccca agtctgatag gaggacccct ctggttacca 60

cattcaattt aagttcctgg aaagcaaata tattaaattt tggaggaaga acctaaggac 120

cgaactggat ccttgcctac ccgaggaatt aaatcgagcg actagaatct aggtccaaaa 180

aaatctaggc cctaaaccta gccgcctaga accggctaat cgagcgacta atcggcccta 240

atcgtcgact agtcggacga ccagggcgac caggtactct agtcaagtcg gctgcctaat 300

cgagctctgc taaccgacta gcccgactaa tcgagactaa tcgcgattag tcggacgact 360

tgaaaacaca gtttagctct taaagaggag ctaaacttta gtctgtttct ttagctcttg 420

gatccaaaca gacccttaga atacaagtga atc 453

<210> 37619
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-H9

<400> 37619

tcgattccta aaccaaacaa gtatttcaga ctctaattta accccaactc ctgaaccaag 60

caggcagcag ctagctaccc aatccaccat ccttccttcc ttcctaccca atcttaggta 120

ttcttctaac ctaaagacat cagctttacc acttaagcga acccccttacc agatgactta 180

acagaggaag agaagttgga gcccctaaaa aatgtaaatg atgatcctag gattcggcta 240

ttgaaccggt tgtacgcgaa gaagcgggaa gagc 274

<210> 37620
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-A1

<400> 37620

cggacgcgtg ggcggacgcg tgggcgtggt gggttccgat ccaatcgacg tcgacgactg 60

cgcagccacc gctcctctcc tctcgtcgct tcttccgtct ctcggcgtcg aatctcatcc 120

ggccagtgac cacactctac tagccgcccg gaaggagttc ttccgggatt cgagccttgc 180

tgccctcacc tctgcaggcc cagcgtcgag cggagatcca atcggaaatt caactgactt 240

cgtcttttgt cgcatccccg tcaggagaag caatgtcagg agtgatcaca aagttcgcgg 300

ttacatccat ggtgatgtgg atggcccctg ttgcgatcat gtatgggttt tactaccagg 360

tgtttccagg tgtgagtcag atgtcatcct cggcgcagac acttgccagt gggttcctgg 420

ctgtcatatc ggttaatcta gtgatcggct nttacatatt cat 463

<210> 37621
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-A10

<400> 37621

cccacgcgtc cgcccacgcg tccgcggacg cgtgggatcg ccgactcgcc gagtagatgg 60

caacgtcacg gacggcttag cctgtccctg ctctgtacca ttctactacg cctgtttttc 120

tgagactctg acacggatgt tggcaagacc accagcaccg cctttggtga ctgctcaaac 180

tcctgaagtc ggcatcttca ttacagctcg caacgtctcg ggtgcactgg tcgccaagct 240

tcctggtaac aaaaacaagt gtggaggaag atcgaatgtc cggcagcgga acatccaacc 300

tgggaaaagg ggctgtcgtc gggagtggcg ggcgctctca gcagctgacc aagcgcaagc 360

ttctaccttg gacgtagatg aggagtgcaa acgggtgctc actccattgg gtttctccag 420

cgaagacgcc gagaagatgc t 441

<210> 37622
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-A11

<400> 37622

cttcttgtta catgacaact acacttgagg cggggaacgg caagtgttcc gtctgcttga 60

gagcaggaag agggacgagc tgagccagga gttgctagac aaggcacgag ctcgtaaccg 120

cggcggagcg tacagtttct tctgtgaccc tgacgctctg ggagagaacc tgtacacgat 180

tataaagttc ggccttgttc aatacatgat tctcaagaca ctatgcgctc tcttggcgtt 240

ggtcttggag ccttttggag cctatggaga tggcgaattc aagtggaatt acgggtatcc 300

ttacattgcc gctgtcataa acttcagcca gacatgggcg ttgtattgcc ttgtgaagtt 360

ttacaacgcg acgcatgaaa agctacaggc gataaagcca ctagccaagt tcataagctt 420

t 421

<210> 37623
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-A12

<400> 37623

cccacgcgtc cggcaagctt gcagttgcag ctggcctctg tgggggggtct tttctgtaca 60

gatctagcaa ggcagcgtcg tggcacaccc agatacgcac cagacagtca ggtagatgtc 120

tgccaagata tgcaaatatg gttgtagatg ttctggtttt cctttggatc atttgtgttt 180

gtggatgtag tgctacgtgc aatggaatca ccacatttcc cattttattt gacgcttt 238

<210> 37624
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-A3

<400> 37624

gcaagatacc ctttcatatg gaattctgtt caagcattgc aaatccttgt gtatcctcca 60

tttagttgga tccaaagatg ggcaccactc aaatttcttg tgcagggaat tcaggttatt 120

caatttctca tctctccaca acgcatgcta tttcgttcct tgacataggg gaaagacaga 180

aactatccat gccactgttg tttttgtcag tcacaacaac agtaagtgag ctgtcctcca 240

agcgtgatga tgaaccagat aacaatacag aacattctga aacaaatgaa ttggcatcaa 300

cttctggcac aagtgatgct gctgatggca caaaggaaat cgtacaagag aactggcttg 360

tgttactttt cagggagctt gagaagcaag gcatcacttt acccgagagg tttactgaag 420

atgaattacg cagattttat gttgctgc 448

<210> 37625
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-A4

<400> 37625

gatctagatg ctgtaaattt caagaaattc tgccttgttt tgaagaacca atacctatgt 60

ctaggtcaaa atgccgaacc acgcgcgagg aacgctatgg cgctcctgct taacagtgag 120

ggtatatctg ggccacttcc cacggccttg ggcgccttct ccaacttgag ttacctcgcc 180

ctcgccaaca acaagctcac cgggccaatc ccaccatcag tcgggcacct gcaccactcc 240

ctccgcgaga ttgtcctcct caacaaccag ctcttcggct gcctccccgg cgagctaggg 300

atgctcagca aggcggtcgt catcgacgcc ggcatgaatc agctcaccgg cccaatccct 360

ccgctctttt cctgcctcag cagagtcgag cagctcaacc tggccgggaa ccgcctctat 420

ggccatgttc ccgacgc 437

<210> 37626
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-A5

<400> 37626

gggaggacta tgtgtaccca gctacaagat cccagaattt aatagttgta tcatgtgaac 60

cagtaacaac tattaaattc tgggatcttg tagctgggag gactatgtgt acccttactc 120

accataaaaa gtctgtccga gctatggcgc ttcatccaaa ggagaaagca tttgcatcag 180

catcagcaga caacgtaaag aagtttaacc ttcccaaagg cgaatttctg cacaacatgc 240

tgtcgcagca gaaaacaata atcaattcaa tggctgtaaa tgaggatggt gttttggcaa 300

ctggagggga taatggaagc ctgtggttnt gggactggaa gagtggtcat aactttcaac 360

aagatcagac tatagtccag cctggatcac tggaaagtga ggcatgcata tatgccctct 420

catatgacgt gaagcgatca 440

<210> 37627
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-A6

<400> 37627

aaaaaaaata aaaaaaaaaa gaaaaataga taataaaaaa aaaaaaaaaa aaaatggaa 59

<210> 37628
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-H1

<400> 37628

gtaaggccaa agcatatgtt actagatatg gaaattagac atacagaaac tggcatattc 60

acctttgata agactattga cttggctcat cctgccaatt ttgttgcaca agatggaagg 120

ctagaaagta tagcatacga tgtttcgaat aatcatgcac ataggacaga ctataaaaac 180

gaatcttctg ttggactccc agaaactgtt gtgactcaga gctcacttat tgacttcact 240

gacaattgtt ttgaagacaa aagggcttca attgataaat tgttacctac caataatcta 300

gactggccat tgaaggataa gctcaattct acaacagact atgacatttg taggcctatt 360

aatgatgatg aacgatcaga cgacgaatca gtgcctaaca tcagttatac cagtcgtgta 420

gtgata 426

<210> 37629
<211> 134
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-A7

<400> 37629

cccacgcgtc cgtgaaagat cagcagcaat gtcaagcact cgcctccatg aaataagttg 60

tctgaccaaa gaacgtattt gcattatgta ttgtgccagt gcagcgggtg tattaaaaaa 120

atgtgcattt taat 134

<210> 37630
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F5

<400> 37630

aaaactcata cgacagtcta caaaatcagt tttaaaacat cacgacaaag acaaaaaagg 60

tgctatgcta ggtcggtaca aagcaccaca gaatggtgct gcgcgacata ctgcagggga 120

tcacgaatcc ggcgatccgt atgctggcca ctaatggcag caatgagcgc atctctgctc 180

tcatgtacga ggatacccga atcgtgctcg atatgctact tgataacgtc atgcttgact 240

ccatgaccta caccgagcac gccagtcgta tgaccatcac cggcatagat gccaactac 299

<210> 37631
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F6

<400> 37631

cacaaaagga tcaaggatga aattgagctt ggcaatggcc tgccagatat cagaagcact 60

cggcaatgtc tccaggcagt aaaagacgcc gggtttgagg ttgtttggga taaggatctt 120

gctgaagatt ctcccttgcc ttggtacttg cccttggatc caagccgatt ctccctgagt 180

agcttccgtt tgacctctgt gggacgcatg attacccgca caatggtcaa ggccctggag 240

tacgttggtc ttgctccgca gggcagtgag agggtctcta atttcctgga gaaggctgca 300

gaagggctgg tagagggcgg aaagaaggag atcttcacgc caatgtactt ctttcttgtt 360

cggaagcctc ttctggaatg agctcttgga tcacctttc agagagagaa ggcaagtggt 420

catttcgaag aagccgaaga gagggaacct ggaat 455

<210> 37632
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F7

<400> 37632

cccacgcgtc cgatcgtcct cgcgctcagt ggcatttgca gttcccggca gcagccatgg 60

cgtctgtgca gctgtctggg ccgcgggtgg tggcggctgc gaaaccggct gcgttgggcg 120

ggctcctact gacgccgtcc cttgcggtgc caaaggggcg gagaaccagg gggctcgtgg 180

tgagggccgt cacggtcgtg tcacctaagt atacatccat aaaaccattg ggagacagag 240

tacttgtgaa gatcaagacc tctgaagcta aatctgatgg agggatttta cttccagtat 300

caattcagac aagaccacaa ggaggggaaa ttgttgcggt tggagaaggg agaagttttg 360

gaagtaaccg cattgagatc aaggtttcgg gttggtgcac 400

<210> 37633
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F8

<400> 37633

cggacgccct ttatcgttct tgcgctcatt gtcatttgca gttcccggca gcagccatgg 60

cgtctgtgca cctgtctggg ccgcgagtgg tggcaaatgc gaaaccggga tgattaggcg 120

gagctcctgc tgacgccgtc ccttgcagtg ccaaaggggc ggagaaccag ggggctcgaa 180

gtgagggccg ccacggtcgt gtcacctaag tatacatcca taaaaccatt gggagacaga 240

atacttgtga agatcaagac ctctgaagct aaatctgatg gagggatcct actttcagta 300

tcagttcaga caataccaca tggaagggaa attgatgcgg ttggagaacg gagaagtttt 360

ggaagtaacc gcattgag 378

<210> 37634
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F9

<400> 37634

cccacgcgtc cgcgactcat gcatagaata ctaaaaaacg cacaaaaaaa actcaggagg 60

ggaaattaaa aaaaccacat aaaacaaaaa aaaaaacaaa taaaaataaa aagaaccaac 120

aaaaaaaaac caattgctct aagcaaaata aatgctatgc acccatatat ttcatccagc 180

tagcttgcac atatggtaat ctaaattgtc tactgagacc gttctcctga ccaacctagc 240

ctagacaaaa cttattgtca cccaaccgac aaacttggac tgcaattccc cttgtagcac 300

ttgctgaatt acttaccaga caacacccta tgg 333

<210> 37635
<211> 452

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-032-Q1-K1-G1

<400> 37635

tcgcccacgc gttcgcccac gcgttcgccc actcgttctc ttgaagatag cttccagata 60

tgtggggttt tgcatcaaat gcttgggcat ccgggctggg gaagaggagt cccccaaatt 120

gcacctcttc gagtgctgct tgttccgatg acgaagcatc ctcgtgcacg agcagggaag 180

aaggcctgga atgcccaata tgttgggagt ctttcaatat agtggagaat gtgccttacg 240

tgctatggtg cggccacacc ctttgcaaga actgcgtcct aggacttcaa tgggccgtca 300

tcaaagttcc aactgtgccg atgcagctac ccttcttcgt ttgctgtccc tggtgcaacc 360

tcctgtcgct tcgcatactt tacaaaggga acctcacgtt cccacggaag aactatttcc 420

ttctctggat ggttgaggng atgaatggtg ag 452

<210> 37636
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G10

<400> 37636

cacatttaca gcgatgatcg ctgggcttgg tagttgactc cgcatttgaa gaaatggtca 60

acattcacat tgaagttctg gaattcaaat tggacacatg tttcctagcc agcttatgat 120

agataatacg ttgtgtatag gtgtgtttaa tatgaaaatt gttgtcaatt ggttgaagag 180

aaacttgtgt cattcttttg tagttaatcg actagcgaac tatatgctat attcgttcct 240

gtacaaagta ttaggagtga ttgacagtac ctcttgatac agcattcatg agattg 296

<210> 37637
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G11

<400> 37637

cccacgcgtc cgcccacgcg tccggattat gcccctgcca gtcaaacttg ttgtctggtc 60

gatggcagcc gctaccacct gtggcggctt ctacgctttc ttcgttcaca gcgagaagcc 120

tgtcatgcca gcggtggcgc cacggcccgc cgcggccaag gatgcagcct ccaactaggt 180

tcgtttgcca ccacaaggcg catactgccg gccttggttc ggcaccgcgc gttagatccc 240

agggccaact aggttgttct ctaattccta atttcttggc cttttctctt gcactctccg 300

ccatttgagc tgtcgcctcg gttggtttag cttgccggcg tggacagact ggcagatctg 360

gagctcggcg cgaccagatc cggtgctgct gtgcccgatg gcagaggaga tctctc 416

<210> 37638
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G12

<400> 37638

agcaagctca gctgcacgca ctgcacctac cgggccagcc gccagccgcc ggccagcatg 60

gaggcggtgg tagagtgcgc caagtgcgag tgctgcggcc tggtggagga ctgcacccgg 120

gactacatcc tgggcgtgcg cgcggccttc ggcgggcggt ggctctgcgg cctctgctcc 180

gaggcggtgc gggacgaggc ggtcaggggc acgacggcga gaggccccgc cgacgacgcc 240

gcggggctgg aggacgcgct ccgggaccac atggccttct gcggcaagtg caggctgagc 300

cccgcgttcc gggtcgccga cggcatgcgc cagatgctgc gcacgtgctt caagtgact 359

<210> 37639
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G2

<400> 37639

aagttactgg gagagctaga gccaacattt actgtgttgc tgcaatgatc gagtttagat 60

ttcgtttggg aactggccct gataagggag gaggcatcat tcctggagtc gcggatggca 120

aggctctact gttgaactac aacgacctgt ccgggcaact tcctgcagat cttggcttct 180

ccaaactgag cttactcgcc ctggccaaca acaggctaac aggcccaatc ccgtcatcag 240

tagcgcaact gaaagactcc cttctcgagg ttctcctact gaacaaccag ctctccggct 300

gtctcgcccc cgagctcggc atgctcgcca aggcggcggt cattgacgcc ggcatgaacc 360

agctcaccgg cccgatcccg tcgtccttct cctgcctcat cagcgtcgag cagctg 416

<210> 37640
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G3

<400> 37640

ggtcatacag tatagagccg gtggcagatt aattcctgtc tgctgtgggt aaagcttatc 60

ttctgctttc gtgtttttttc ttgcttcttt cgattatggt gtatgtcata atgtattagc 120

tgattatact gtccctgctc atcggacttt attacgcttc attaagttag gctgattact 180

gcttaacggg cgaaaaaagc cctgaccaac acaagctaac aggcccaatc ccgacatcag 240

tagcacaact ggggcact 258

<210> 37641
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G4

<400> 37641

cccacgcgtc cggactgcgg cagcggagtg catagagcgg acgcaacgca acaccgtcca 60

ctctctgtca ctgacgatcg aagtgaggag cgcactgaag ccagccgccg atgagtcgcc 120

tcctctcgcg gcagcacctt gccgccgtcc gtcgatctgc acccttgcg tgcgtgtcca 180

ggtggctgca cacgccgtca ttcgcgacgg tttctccgca agaggtttca ggttccagcc 240

cagcggaagt gcagaatttt gtgcagggca gctggacagc atctgctaac tggaactgga 300

tagtcgatcc cctgaacggt gataaattca tcaaagttgc tgaggttcag ggaacagaaa 360

taaagccatt cgtggagagt ttatctaaat gcccaaagca tggacttcac aacccactta 420

aagctccaga gaggtacctc atgtatggag atatatc 457

<210> 37642

<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G5

<400> 37642

cccacgcgtt cgcggacgcg tgggcggact cgtgggccga cgcgtggtca agcacatcgg 60

gaagaagctc gttggcctac gacgattcat ccacgcactc tagctgtcgt tctggatgac 120

cgaccgtagg cacctacacc tattggtcgg tgacctcggg taccggctgg acctaatcag 180

caaggtgcac gggcttgata aagccgccga gtacttcggg atggtaccca agcagctgac 240

gaagccgcag tgctacggct acctactgaa atgctatgtg gaggcgaaag ccgttgacaa 300

gg 302

<210> 37643
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G6

<400> 37643

cccacgcgtt cgggcgcaga gaatcccctt gcaaacaaac agggtagagg gagaggagag 60

gagaggagag gagaggttgg gtctgggaca ccatggctcc gatgaagctg tacggtgcgg 120

tgatgtcgtg gaacgtgact aggtgcgcaa cggcgctgga ggaggctggc tccgactacg 180

agatcgtgcc catcaacttc gccaccgtcg agcacaagag ccccgagcac ctcgttcgca 240

acccgtttgg tcaggttcca gctctgcaag atggtgactt gtacctcttc gaatcacgag 300

caatctgcaa gtacgctgct cgcaaaaaca agccagagct gttgaaggaa ggaaacctcg 360

aggaggcagc aatggtggat gtttggatcg aggtggaggc taaccagtac accgctgcac 420

tg 422

<210> 37644
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G7

<400> 37644

cccacgcgtc cgggctctca gaatccgctt tcaaacaaac agggtagagg gagaggagag 60

gagaggagag gagaggttgg gtctgggaca ccatggctcc gatgaagctg ttcggggcgg 120

tgatgtcgtg gaacgtgact aggtgcgcat cggcgctgga ggaggctggc tccgactacg 180

agatcgtgcc catcaacttc gccaccgtcg atcacaagag ccccgagcac ctagttcgca 240

acccgtttgg tcaggttcca gctctgcagg atggtgactt gtacctcttc gaatcacgag 300

cgatctgcaa gtacgctgct cgcaaaaaca agccagagct gctgatggaa ggaaacctcg 360

a 361

<210> 37645
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G8

<400> 37645

cccacgcgtc cgacgactcc ggattcttta acgatcacag gtagcatctg gttcactttg 60

actgagatca tgtccagcat gaactgcaag tgctactgca gctccagctg gtcctgcgtc 120

atgtcatgct actgcatcat ccataacttg cagacctact tcgagagcag cctcaagacc 180

atggttctta ctgtgcatac caccacggcc agcaccaccg gcttcgaggc tggcaccgac 240

gtccgcgcct gccactgcaa cacctgcaag tgcggtacca gctgcggctg cttctgctgc 300

atctgcaact gat 313

<210> 37646
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G9

<400> 37646

ccactcccca tttctcagcg tgcgcgctct ttctctctcc tttgtggtaa ctggcggcgg 60

ccgacgccga cgccctagct cacgtcttcg tcggtccctt cccagtcttc gtcgggtact 120

tcgacgacta cgagaacaaa cgaggaattc aaggatacac tcgctggact gaagaataga 180

gaaacatgtc tgatggaggt gcgaaagatt tttaccgggc gaaaaagaaa ggaggcctgg 240

agaaaacagg ttgatactga cagaacaag 269

<210> 37647
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F4

<400> 37647

cggacgcgtg ggaggcctct gatccttgta gaatcgaagg ataactctgg agacgagacg 60

tatagcattt ttctacaaaa cgcagaaaca gttgcactta ttacccctaa cacaggatca 120

agtggaagga ccggcattcc cgtgacttcg ctgaaagtcg gtgatgaagt tctggtgagg 180

aaacagggcg ccgtccgtca cactgggata gagattcagg agtttattgt tgagagatga 240

aaatggaaac gctgaatgca ccagtttcac gtcgctttga acaaaataat gatgtatgat 300

tgcaacattc atctgttctg ttggttaaga ttgtgagatt ccattgcagc 350

<210> 37648
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-D8

<400> 37648

cccacgcgtc cggttggctt ctcctccctc tccggttcgg gttcgggttc gtgaggttct 60

ccggggttcg gtttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc 120

tgcttcgtcg gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc 180

acctacggcg aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc 240

ggcttcggct tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgaaggcatg 300

aacggcaagg agctggacgg tcgcaacatc accgtcaacg aggcccagtc ccgcggcggc 360

cgt 363

<210> 37649
<211> 370
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-032-Q1-K1-D9

<400> 37649

tgatattgca accacactaa gaagggatat cacaaataca atcctcacag atctaattaa 60

accagaaata gatcttcaga acttcttcaa caattatgat aagtttttgg aggagaaacg 120

cctagctgaa caacatgctg actaccttgg ggctcaaata acgcacaggg tagcaccact 180

gcatctgctt tggcaagctg ccaattcata tactccaaca ctttttgaga tgttcagaat 240

ggaatatgaa cagatctcaa agtgtgtggt ctatagttgt ggtgagattg gaccaatatc 300

tgagtaccag gtcactgtca aagacaggcc tcanggtcaa tttgttagat ttgactcaac 360

agaatgtatg 370

<210> 37650
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E1

<400> 37650

cccacgcgtc cgctcagcat caccgcattc gccttcagat ctccatgcca cccgtgcgat 60

cagaggtcat cgccatcgtc gtgacctgca aggctgacgt tgatgcgttc ttcgggaggc 120

tgctcgaggc gatccgtgca agggcttggg aggtgacccc tgcagctgct ccgtcgagtg 180

gcacgtcggt ggcccagggg gccgcgccta cggaggacat cgcgatacgg atgccggctg 240

ctggggtctc ggagatactg cggatggagc aagagtcatg ggagaacgcc gggcagaact 300

tgcacgatgc gttccaggat ctcaatgccc tcatgagcca cgctaaggag atgatgcagc 360

tagcagaaat actgatgctc aagctattaa tgaactcatc cactgaatc 409

<210> 37651
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E10

<400> 37651

cggacgcgtg ggcgtggaag cctcagattg ttccgacgaa gaattcacct ccgcgcgcaa 60

cagggaaacc tacagatgcc accaacccgc cagccatgtc aagaaaggat tcgtttgggg 120

agctgctgac aaacctcccc cgcatcgcct cgctaccaca gttcctcttc aagataccag 180

agggtactga gaactgaacg tggaagttaa gacctcacac ccttcccttg gaataggtag 240

tttgctgtaa gcctgtaaag attgtatcca agcaataaga aagcccctta tcacctcctc 300

ggaggcgtgt tccccgctct gtaaatttga cacccggtag gtgcttcagg tgtatggttt 360

tgcgaatcat gggtagt 377

<210> 37652
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E11

<400> 37652

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgga atccttctgt 60

gaagatcgtc gccgtcaaga agatggagct gccgacttgc aagcaggccg acggcgagcg 120

cgagttccgg gtggagatcg acatcctgag caggctagac caccccaacc tggtcacgct 180

catcggctac tgcgccgacg gcaagcaccg gttcgtggtg tacgagtaca tgcccagggg 240

caacctccag gacatcctca acggcattgg ggaggtgagg atggactggc cgctgcgcct 300

gcggatcgcg ctgggagcgg cgcgggcgct ggcctacctg cactccagca cggccgtcgg 360

cgtccccgtc gtccacaggg acttcaagtc cagcaacatc cttctcaccg accactacga 420

ggcaaa 426

<210> 37653
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-032-Q1-K1-E12

<400> 37653

gacaatctgt ctatgtgtat ggatgcaagg attctgtcct tcaagtaaac ggcaaggtta 60

acaatatcac tgttgacaaa tgcactaagt ttggaattgt attcaaggat gttgtagcag 120

cttttgagat tgtcaactgc aatggcgttg aagtccaatg tcagggtacg tcaccgacaa 180

tatcaatcga caacacatct ggatgtcaat tatacttaag caaagattcg ctgggagctt 240

caattacttc tgccaaatct agcgaaatca atgtgatggg tccaagtggt ggcgctgatg 300

gtgattgggt ggagcatgca ttgcctcaac agtacatnca tagtttcaag gatggggcag 360

tcaccacttc accagtttca cacttangag cgtgaataca attgttact 409

<210> 37654
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E2

<400> 37654

tcgcccatgc gtacgtttat ccatatccct gctgtttcag atcctcatgg atccagtcaa 60

gccagggatc gatcatgatg actcggacga gcaccgcttc gaatctaagg cctacgccag 120

agctgttaag agctatccgt agcagggctg tcacacgggc agaagaacag ctgcatcgtc 180

atcaagaacc gcccctgcaa aggtgtgcag gtttatacct gaaatactgg atagcatggc 240

catgccaaat gccactttga tgcatagaca tgttcaacag gaaaaagcta gcagatatcg 300

gtacttggtc acacaactgc gatatttcgc atgtgaaccg aactgagttc cagctgattg 360

atatatcaca ggatggattt gggagacgtt tttactcaaa tggcaacact aatgatgatc 420

ttagactccc aact 434

<210> 37655
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E3

<400> 37655

tcgtccacgc gtacgctcat cattaccgca gttgccttca gatctgcatg ccacacgtgc 60

gatcagaggt cataggcatc gccgcgacct gcaaggctga cgttgatgcg ctctccggga 120

ggctgctcga ggcgatccgt gcaagggctt gagaggtgac ccgtgcagct gctccgtcga 180

gtggcacctc agcggcagag ggggccgcgc ctacggagga catctggata cggatgccgg 240

ctgctggggc atcggggata ctgaggctgg agcaggagtc atgggataac gccgggcaga 300

acttgcacga tgcgttgcag gatctcgaag ccgtcacgag cagagctcca gaaatgatgc 360

acctcgcaga atacatgagg ctcaagctat aatgaac 397

<210> 37656
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E4

<400> 37656

tcgggggcag agacagagag caaagcaccc ttttatccaa gatccgatcc atccaatcta 60

cgcagcggag gtctggcatc tcagagcggg caaattgccg aggaagacaa gatcaggagg 120

ccagtataac acctgacccg agtagtagga caggtagagc agatcaagaa aagcggtgag 180

gagcagcttc cagatgcacc tgagcggcgg tggccggatg ttgccgccga aacagctgct 240

gaccatcgtc atcatcatct tctccacgct ctccttcatc aagctccttc tcctcaccag 300

ctcgtcgtcc tcgtcagcgg gcttcacctt ccgcagcagc ccggcgtggg acgcagacgg 360

cggcggtaac gggacggcta ggagcgcgc 389

<210> 37657
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E5

<400> 37657

cccacgcgtc cgggaggagt tcgcggagtg ttgacaagaa ggtgaaggag cggatcgacg 60

cccgcaacca gctggagacg tacgtgtaca acatgaagaa cacggtgggc gacaaggaca 120

agctcgcgga caagctggaa gcggaggaga aggagaaggt ggaggacgcc ctcaaggacg 180

cgctggagtg gatggactac aactagtcgg gccataaaga ggacttctag gagaagctca 240

aggaagtgga cgtcatgttc aaccccatct tgtacggcgt gtacca 286

<210> 37658

<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E7

<400> 37658

actcgttcgg ctaggaactg gtgcttaatc ctgaatacct gtactgctgt ttttcttgcc 60

aactgtggca tcgtcgtctt gcggctgcga agctgcagcc acctagctcg cgtatggcgg 120

cagatgagac aattcataat ctaagtatat agatataaat agtattatta ccgtgccgat 180

ataatgcact atctatggac atctgctgca acg 213

<210> 37659
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E9

<400> 37659

cgacaaagcc cgcgaggtcg atcgatcttt tttgacgcga gggattggaa aactaagttg 60

cgggtgtagt taattttcta ggaagattgg ggtttcagct caaactccca tgctcgacgc 120

tgaggacgac cctggcggga gatgacgagg atcttcgtgc agcgcgggac cgccggctcc 180

tcgtccagct ccggccgctc gggcacgcag ccagtgcagc cggcagcagc tgcccgggag 240

gaggagttgc cggtgcaacc tcaaccacag ctgccggagc tattggccat agatgataca 300

actgatcatt taaatgaggg cagcgagaat atcagcaata agcctttgct gacggatgac 360

accatctcag agagctc 377

<210> 37660
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F1

<400> 37660

gacccacgcg ttcgcggacg cgtgggcact aatacactac accataccag aaggagcagg 60

aataagacga gatggcggac gagcgcttgc ctcaaacggc cggcgcccgc acggctctcg 120

ccagagctac tggatcctcg gcacggaaac gcgcccgcga tagctaggtg cgcctgtggg 180

cccggccggc tcgtcactta cataggcgca cgcacccccc gcctggtgcg tcgtcgatcg 240

ctgctttgct ggcgcgcggc ggccctgtgg cacagtagag gtctgctgag gacgacgacc 300

ggaggcgtgc tgcgtggatg gtcctcatgg ccgggatgct ccccggcgtg gagtgcgcgc 360

ggcggcggct ggtccggcag ggcggggcgg tgatgggagc ggaggc 406

<210> 37661
<211> 121
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F10

<400> 37661

cccacgcgtc caatactcat gcacttatta ctaaacaacg cacacaaaaa aaccggtgga 60

tcaacttcat aaccgaggac atgataccca atacaccaaa agaaatccag gagactcata 120

c 121

<210> 37662
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F2

<400> 37662

tcggacacgc gtgcgcccac tcgcgcggac tctaattcac tacaccatac cagaaggagc 60

aggaataata cgagatggcg gacgagcgct tgcctcaaac ggccggcgcc cgcacgggtc 120

tcgccagagc tactggatcc tcggcacgga aacgcgcccg cgatagctag gtgcgcctgt 180

gggcccggtc ggctcgtcac ttacataggc gcacgcaccc cccgcctggt gcgtcgtcga 240

tcgctgcttt gctggcgcgc ggcggccctg tggcacagta gaggtctgct gaggacgacg 300

accggaggcg tgctgcgtgg atggtcctca tggccgggat gctactcggc gtggagtgcg 360

cgc 363

<210> 37663
<211> 159
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F3

<400> 37663

cccacgcgtc cgatttggct gtagctttcc ttgttagttg atcaatacac ctgttcagtt 60

tgtattgttt tctccctcaa atggatgtat ggattcactt gcataacagt gtgaacaaac 120

attcgctgcc aaagatctgg tacgttgtta gtgtttgac 159

<210> 37664
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-D7

<400> 37664

ggggactaca aactagatgc cacagtgact atagcttcag gggatgatat ttatctgggt 60

gacctcgtgt atgagccgtc aagagactgg ccgacgatgt gggagattgg agtacctgat 120

cgatctgctg ctgagtttta tgttccggat cctaacccca actacgtcaa tagattgtac 180

gtcaaccacc ctgcagatag atttagacag tatgggctct gggaacgata cgcggaacta 240

taccctgaca gtgacctggt atacacagtt ggccaaagtg actatagcac ggattggttc 300

tatgctcaag ttaacaggaa aattgatgac aacacttacc agtcaacaac atggtaaatc 360

aagttcgatc ttgacagtgt cagcccaagc agcacctaca agttcatggt ggctctggcg 420

tcttct 426

<210> 37665
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C12

<400> 37665

cccacgcgtc cgcccacgcg tccgcttttt ctccactccg attttgcttg gttccatcgg 60

gccggagagg gagaagctag ctagctagca gcagctctgt tggtgtgtgt gtgtgtgtgt 120

gtgtggaggg tagctgaagc tggtgctcgc tggaatggtc aggagccatg gtgaggggcc 180

gggtggagct gatgcggttc gagaacaaca tctaccgcca ggttacctta cacaagc 237

<210> 37666
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C2

<400> 37666

tttggacatt tgttattcaa ttcttatcgt tctgacttgc acgtttacat ctgtaggcta 60

tgcttttgtc tactttgagg atgaacgtga tggcaatgat gccatacggg ctcttgatgg 120

ttatccattt ggccctggca gacgcaggct ttcagtagag tggtcacggg gtgatcaagc 180

tggtagacgt gatggcaaca aaccagaagc aaatactaag ccaacaagga cactgtttgt 240

cattaacttt gatccaatga acacaagagt cagtgacatc gaaaggcact tcacaccatt 300

tgggaacata tcaa 314

<210> 37667
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C3

<400> 37667

tcggacctac aactacatca gcagctccta cttattctaa taggatgtac cctagccccc 60

gaccgtacac ccagtatggg aattcagtaa aaactggtct tccctacggg agtaacggtt 120

atgattccag gatatatggt cgatgtggtc ttggtaatgg tatggataac aggtacaggc 180

ccagggcatg tagtggatac tatggttatg gcaatgagag tcaggatgga acaattgagt 240

taaacagagg tcctagatct ggccggttca agaaccagaa attgtacggt catactgtca 300

ctattgctgc gaaagggcag tctctccctt ctagtgaaag caagaatgat agtgctgtgc 360

ctgatagagc aaagtacaat agagatgact tccctgttca gtacgatgct gcaaagttct 420

ttgtcattaa atcgtacagc gaggatgaca tccacaagag cg 462

<210> 37668
<211> 318
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C4

<400> 37668

cccacgcgtc cgcccacgcg tccgcccact cgttcgacca cgcgtacgcc cacgcgtgcg 60

ctcttattca cctcactaac accagctagc aactctttct ctactgcaat aatggccgct 120

cgctcctcct actcccagcc gcagctggtc gcggcggcgg cggtcctggc agcggcgctg 180

ctgctgctgg cggcggcggc cgggacggcg tcggcggcgg tgagctgccg cgaggtgacg 240

tcgtcggtgg cgccgtgcct cgggtacgcg atgggcagcg cggcgtcgcc ctccgcggcg 300

tgctgcagcg aggtgcgc 318

<210> 37669
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C5

<400> 37669

ccgacgcgtc cgtcttgatc cagttctgtc agggatcgcc atgtcggact cggaggagga 60

ccacttcgaa tcgaaggccg actccggagc gtccaagacc tacccgcagc aggctggcac 120

cgtccgtaag aacggcttca tcgtcatcaa gaaccggccc tgcaaggttg tggaggtttc 180

tacctcaaag actggtaagc atggccatgc caaatgccac tttgttgcca tagacatatt 240

caacgggaaa aagctcgaag atattgttcc ttcgtcacac aactgtgata ttccgcatgt 300

gaaccgtact gagtaccagc tgattgatat atcagaggat ggatttgtga gccttcttac 360

ttcagatggc aacactaagg atgatcttag actcccaact gatgagactc ttgtggccca 420

gatcaaggaa gggttcgaaa gcggcaagga tct 453

<210> 37670
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C6

<400> 37670

cccacgcgtg cgctcacgag cgattgcttt agccgaagta agacgcgatg gggcactaca 60

acgtgtggaa ctcgtacccg aagaactacg ggcccggatc ccgcgtctgc cgggtctgtg 120

cgaaccctaa tggactgatc atgaagtact ggctgatgtg ctgcaggcag tgcttccgca 180

gcatcgccta ggacattggc ttcatcaagt accggtgaag tcagctgggc tggctatctg 240

aatgccatct cttggacagt gtaccacagg cgatgccaca gttataatta ctgtcattta 300

gatgctccct tcagaactct gctattgaag tccgtcatgt tcgtgatgga taactgaagc 360

tctgattgtt atactgatga tgagttacct gtgctttggc t 401

<210> 37671
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-032-Q1-K1-C7

<400> 37671

gcaaggagat ttttctttta tccagctttt tagcatgatt ctctttgatc ccggagagca 60

gccaccggtc caactagtcc ttgctgttgg tctgccggaa cttttgattg ctctccagat 120

ctgaggcacc tgctgggtgg attccaggaa cccgagcacg aagttgacag gtgagttctc 180

agggaaaaag gggaggaagg aagaggctga aagggcggtg gagagagaaa gactataagg 240

gcgagctgag tcccttgagg atgccgtcaa gaaaccgcgt ggagaggagg gcgatgagat 300

gagggatgct ggccgcggtg atggactact tcagctcctg ctggggcccg cgatcgggcg 360

ccgggcaccg gtgcaagggc tccgacgccg tcggccggca ggacggtctn ctctggtaca 420

aggacgcccg ccaggtcgtc actggggagt tc 452

<210> 37672
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-032-Q1-K1-C8

<400> 37672

caagcagatc taagctccag gcagcgtctc gacagagtga gtgagtagca cgacaacaac 60

aatggcttcc ctgaaggccg cgaagcccag cggagttgcg gcgcagggca aggagccggc 120

gcccaagctc agcgagacgg cgacgaagcc gtcagccgcg aagagcggcg gcgttaagaa 180

ggctgagcag aagccccggg aaaccaaaag gaaggtgaag agcagcaaac cggcggcggc 240

ggccaaaaag tgacgtacag tacagtacgt gtggagtgta atggagcttc ccatgcatga 300

gtgaatccat gccatgttat gaatctagtc cttcctttct tgtatcttcc atgtgacgcg 360

gcgtgtgcgt tccctcatgt gtgatgatgc cagatgaata ctacaaataa gacgttgntg 420

tgactgccc 429

<210> 37673
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C9

<400> 37673

cgccgacctc ttacacgcgc acttctactt gtcctgcccc tacctgaagt tcgcccactt 60

caccgcgaac caggccatcc tcgaggcctt cgccggctgc cgccgcgtcc acgtcgtcga 120

cttcggcatc aaacagggga tgcagtggcc ggctattctc caggccctcg cccttcgccc 180

tggcggcccc ccgtcgttcc ggctcaccgg cgtcgggccg ccgcagtccg accagaccga 240

cgccttgcag caggtgggct ggaaacttgc ccagatcgcg cacaccattc gcgtggactt 300

tcagtaccgt ggtctcgtcg cgggcacgct cggcgacctg gagccgttca tgcttgcacc 360

ggacggcgat gacaccga 378

<210> 37674
<211> 285
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-032-Q1-K1-D1

<400> 37674

gcagcagcta tgtaccatgg acccagattt agctggngag ctgcgcgtga tgaaccatga 60

gctgcagcat caaacgattg attggagcag caactgttct gcaacatgga ccttgactta 120

tcaagtgaag cctttgtgat gaaccatgaa cttttgagaa aactatgtat ggagcatcag 180

catatgtata cttgtgtgcc tccaaaggta gaaccctacg gcagaagaat gtcgtgtttg 240

ttactgagat aaagcttcat taaccgtaga ttcgacagaa tagct 285

<210> 37675
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-D11

<400> 37675

gaaaacagag agccagttaa gcaatctctt tggacattga ggtgctgatc tgctaagtgg 60

cgtgctacag catgtcacgt aaggtacacg acgacgacga cgacattgaa cggagggaca 120

ctagacgaag tgatcactag tgggtgcatg atctacttct ttattatgtg ccagtctgat 180

gcatgacaca cacgtagcta ggacatttct gctacgacga cgactgcatg ctgctgatgg 240

ccacgtacgc tgccatccaa cgagcgagct acctccacta tgggtacatc gatcaattga 300

tcttggtcta cgtttactgt ggcgccgatc c 331

<210> 37676
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-D12

<400> 37676

gaaaacagag agccattaaa gcattcacta cgacattgag gtgctgctct gctagcgggc 60

gtgctacagc atgtcacgta aggtacacga cgacgacgac gacattgaac ggagggacac 120

tagaccaagc agatcactag tgcatgcatg atccactact tgattatggg ccagtccgat 180

gcatgacaca cacctagcta ggacatctat ggtactacga caactgcatg ct 232

<210> 37677
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-D2

<400> 37677

agcatcccgt ggagagaagg cggcggctgt tcctgtggga gatgtcaatc ctgtgggaga 60

agagcgcggg ttggcgatgg ctggttcggc ggactcgtga ctcgaagccc ttctgtttca 120

cgttcgcggc gctgtgcggc gtagtacccg gcgtaatcgg ctactgcgtg atgcagctta 180

ccggcttccg caacgagcag ctcgaggccc accttcgctt cacggtccgt accgagacca 240

cgatgattgg gctagtgaac agggagaggc tggcggagtt tcttggctag ctgcaacgga 300

aagaggacac gaacgac 317

<210> 37678
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-D3

<400> 37678

tcgacgaagc ctaaggaagc tgagaaacca tcagattata gaggaggctc caaagcctaa 60

gccaaagaat ccccttgatt tgcttcctcc gagcaagttg attcttgacg attggaagag 120

gctgtattct aacacgaaaa ccaacttccg tgaggttgct attaaaggtt tctgggacat 180

gtatgaccca tagggctact ccctgtggtt ctgtgactac aagtacaatg acgagaacac 240

agtgtcgttt gtgactatga acaaggttgg tggcttcctg cagcggatgg atctgtgccg 300

caaatacgcc tttggcaaga tgcttgcggt tggctctgag ccccctttca aggtcaaggg 360

gctctggctc ttccgtggcc ccgaaatccc caagtttgtc atggatgagg tctatgacat 420

ggagctctat gagtggacca 440

<210> 37679
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-D4

<400> 37679

tcgcccacgc gttcgcccac gcgtccgggc ttctcctccc cctccggttc gggttcgggt 60

tcgtgaggtt ctccggggtt cggtttcgtg ggtgagcgga tcgagatggc ggcgtcagat 120

gttgagtacc gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctccctacac 180

aacgccttca gcacctacgg cgaggtcctc gagtccaaga tcatcctcga tcgggagacg 240

cagaggtccc gcggcttcgg cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc 300

atcgagggca tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa cgaggcccaa 360

tcccg 365

<210> 37680
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-D5

<400> 37680

gttaatcagt gccacctagt cgccgtcatg ataacagtat ttccaccttg tgcatctatg 60

aacaggattc tgttaacttg gctaaggtgg agtcttggct tgaagatctt ctttgggaaa 120

agaaatctat tatggacata tatcgctgta aagggatttt atatatccat gattcagacc 180

aagttcatac attacaggca gtgagggagg tctatgaagt tgtgccggct cgaaaatggt 240

ctgagacaga gtctcgcatg aacaagatag ttgtcatagg ccgcaatctg gatatcaatg 300

tacttcaaga ttcttttagt ggttgcaaga gctgataatg agtatctgtt tgccttgcac 360

aatgttagtt ggccattttt ctgtgaagta cctctgtgca agtgaatact gaaatggacg 420

agaatctt 428

<210> 37681
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-D6

<400> 37681

gttcacttct ccaggttagg aaagggtttg tactcatggc gccgacgcag ccaaagtcgg 60

gcctcttcgt tggcatcaac aagggtcatg tcgtcaccaa gcgcgagctg cctccccgcc 120

cgtgccaccg caaggggaaa tcaacgaaga gggtgtctat ggtcaggggc ctgatcagag 180

aggttgctgg gtttgctcct tatgagaagc gtatcactga gcttctgaag gttggcaagg 240

acaagcgtgc cctgaagctt gctcagagaa agcttggaac tcacaagagg gcatagaaga 300

agagagagga gatggcggac gtcctaagaa gatgaagtcg actgttacgc acac 354

<210> 37682
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C11

<400> 37682

tttcatcctg cgagagacaa gcccctcatt aacccttgtc atcctgatcc tgagatccgt 60

ctcctttacc ccactggctg gcgagcagca aactccaggt gcagagcgga caagttcctc 120

acgagcggtt aattctacct agatgatgcg ggatatggag caaaactggg attcttgcct 180

gctttccgtg gtgtgagata ccatataaac caatggggca ataatcccgt acagaacgag 240

acagagttgg ttaatctaag gcactcatct cttcgtgtca cagttgagcg tgcattcggg 300

tcactgaaga gaagattcaa gattttagat gatgcatctg ctttcttgca ttttacaaca 360

caagtcgatt ttgctggtgc ttggtgtatc attcataatt gggtcataca agatgggag 419

<210> 37683
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A6

<400> 37683

ctcacgcgtc cgggcacgcg tgcttgtttt gataacgctt atccatgatc atgcgtcaca 60

tgtgctctac tatgagccat gactggttag cagctacata gagtatatac atactagtga 120

cgtcatttag tgagcgacgt gatgattaca gtcgtattat gctataaatc cactatatca 180

ccatggcagg atgagtgtgc taatgtataa ctacccatca tgggccagtc ggtatatat 239

<210> 37684
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A8

<400> 37684

cggacgcgtg ggcccgatca ccggtcgcct cccttccgct cccctgcctg cctaatccct 60

ccggccaccc cgaaaccgct cgctcgctcg ctcgctcccc gcgcccagag acaagcccgg 120

agaccatggc ggaccagctc actgacgacc aaatcgccga gttcaaggag gccttcagcc 180

tcttcgataa ggacggcgac ggttgcatca caaccaagga gcttggaact gtcatgcgtt 240

cactgggtca gaacccaacg gaggctgaac tccaggacat gatcaatgag gtggatgccg 300

acggcaatgg cacgatcgac ttccccgagc tcctcaacct gatggcccgc atgatgaagg 360

acaccgactc cgaggaggag ctcaaggagg cgttcagggt gttcgacatg gaccagaacg 420

gcttcatctc tgacgcggag ctcccgcacg tg 452

<210> 37685
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A9

<400> 37685

attatgtgct taattgccaa tcactatgct tcgactacgg ctgcttggaa tccctaggct 60

ttctccgtcc aagcctatga ggtgctccag ctggacaaac cctagacgcc tacggcgtca 120

tggcgagcag taacgactca caacgacaca tttcacgtat cgacgacgtc atctacaaag 180

ttcgagagga ttgaatcacc tacggaatct ggaacgccag gctaaacgag gtccaagctc 240

attgggagat gaaaaaggct caatgtggcc caaacattgg gaacat 286

<210> 37686
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B1

<400> 37686

gtctcgattc ccgatcgacc acgcgtccgg gacgcgtggc tcgacatgat taaccgttta 60

ttcttccaac tgacggatca gaaatgggtc gacacgtacg ccaacatcat cgatctcaat 120

caggatgtta actgaatacg gcaccagatc gagagcgagc tgtagctaca agatctccag 180

agaatagagg acatgccatc gacacatgtt aaccgtatga tagcaatgga ccctgatggt 240

ggtacccgac atcgacacaa gatactgcag gtacatacac ttcaacaaga agcatgcagg 300

ctagaaccac gtacacagcg cgcatggtga atacatgttc atggactgat gatgtcatgt 360

tgatttcaat tgcgctgaaa acgttaccta ctacga 396

<210> 37687
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B10

<400> 37687

cccacgcgtc cggttccctg ataccgacta ggtacctttg gaactgaaag taggcagagt 60

gatcttattc atgaacggta tctgctgttg atgaatgtca agcttcattg taaatgtcat 120

tgatgatcac aacagtggac tatttgaccc gtcgctagat gggctgtcag gtagtctcat 180

acgcaacgcg gtgagatcac ttggatccgt tagaagaccg ccgagcacac aatgaccgtc 240

atcacacaga cccattaacg gatcatgtag atctaatgtc gacagaccac acagacacat 300

catcgttagc tcttataatt ataggaat 328

<210> 37688
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B11

<400> 37688

cgtacgttgc tcgattcttg gagaaaaggt tggaaagggt gacaactgcg gcgccgtacc 60

catcagctaa gagcccactg gagagcagcg acacgttcgg cagcgggagc gccaacgcca 120

acgacaagtc ctcgtgcaca gacattgccc tctccagcaa ccatgaagag tccctgtgtt 180

taggggggca gcccaggagc atcatcagct tcagcgaaga gtcccccagc acgaagctac 240

agatctgatc gtgcccagtg ttcatagatt tgtccaggct gaccgatgca gaaaaccata 300

agaatacttt tttccactca agaggaagag attactatcg atgcccgtgt tgtttaccgt 360

gatgt 365

<210> 37689
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B12

<400> 37689

cccacgcgtc cgcccacgcg tccgcccact cgtccgcgga cgcgtgggtt ttttttgaa 60

acggtaaaaa gacacggtta accgtttaat acataacttg aatacatatt tgtttgttag 120

tcacatcgta gctacgtggc gcaacctgcg actttatatg atacagcact cgcccattat 180

tgaattttgc agaagcgaac tctgtagacc acgcaaagaa cagtcgtggt cagtaacaat 240

cgtcgtctgt tggtacactg gccaaaaacc gcgagcatga tgctgcagca tgtagtgttt 300

aactagtcct gcttaagtgc ttattcttta attaggcata tcactatgtc catgctcggc 360

ccatgcttgg gc 372

<210> 37690
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-032-Q1-K1-B2

<400> 37690

cccacgcgtt cgcaactgtc agtgaagatg atgtgctgca tcgcctgttg aaggtggatg 60

tccaggtctc ttctagagac ccctgctgta ttgaagttgc tcttcgctgc ttagcagcag 120

aaggtgatgg atatgggctt catgaagcca acgatggagg tcttcttgct gcagtcatgg 180

ctgctggctt taaaggtgaa ctcagtcggt tccaacctgg agtttcgatg gcaatttcac 240

ggcttgatgc ttggtattct gaccggagtg gttccgtgga gagcaccgct gcttacataa 300

ttcgagggct gtgtcggagg tgctgccttc ctgaaacaat tctaagatct atgcaggcat 360

gtatcgcact ctccgcggct ggtgatgatc tagattactc tctagataaa tgtgacgaac 420

tngttgagtt aggtgcgtca gccgagtctg gaatgat 457

<210> 37691
<211> 427
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B3

<400> 37691

cggacgcgtg ggcgaaaaac ctgctctact gtcttatcta ggcgccccta ctcggctccg 60

atccagtttc gccggcggcc atgtcgcagc cggcggcgac tgtggccgcg gcggcgcagc 120

cgcagggtcg cggccccgcg gggcgccagg gcggcctggg gcagagcatc gcaggcatcg 180

tgcggatggc ggtgttctgg tactttgcgt ccaagttctt cgggcccaag cgcccacccg 240

cggaccccgg gatgctcatg tgcaacctct tccagaaggg cgagccaatg gatatgtgga 300

tgtatttgtc agagaacgag aagttcaacg attttgctaa tgaggatgca cttatttggc 360

acgaggcaaa cataccatat gcagtctggg gacctaccag tactagatca cggtcattaa 420

catacta 427

<210> 37692
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B4

<400> 37692

ggacagatat cgacagggat gcatataact aagctgagga gttattatta ttgtccctaa 60

atgaatgggc cgcgacttta gttgcatcat cttcacttca ttctatttgg gttgaagttt 120

taggcgaccc actcctaaga aggttacttc tcaggttcat cttctgccga gcaactcatt 180

ccctgttcaa accaacaaac cataagacag agttcctgcc gacctgcatg cctcctttgc 240

ctgagtctgt tgatgcagag agcatgctct cccaaagctg tgtgctgcga gtcgcatcat 300

tctttggcgc tgccagtcag ttctcatttg ctgaggttac cacatggcct gatgttgacc 360

ctgaggaggc tgttgtcacc agttct 386

<210> 37693
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B5

<400> 37693

cggacgcgtg ggctgacgcg tggtgtgttc gacgaccctt ggcaagaatt cgtgagcacg 60

gtcgtctgca taaagatcct ctccccgcag gaagtgcagc acaaggcgaa gcagggcctg 120

gagctcctga gctcggcccc cacgcggacg ctcaggagca gctgtgacta ctacgtaagg 180

acgcaggagt ccataaggct ggcctccggg atcacatcac ggacatcagc accggcgagc 240

acgagcacac gatggcgagc acgcagcaac gacagacgcc agttacacat actcaaacat 300

aaagcac 307

<210> 37694
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B6

<400> 37694

cccacgcgtt cgcaaaggtt gatgggaagt ttcagttcag tcccatcagt gttaactttc 60

tgacggaggt tatgaaagtc atctttgctg tcgtcatgct cataattcag tctagaaagc 120

aaaaggttgg agaaaagcca cttttggcac gttcaacctt catacaggca gcccgtaata 180

atgtacttct agctgatcct gctcttctat atgcaatcaa caattaccta aaattcatca 240

tgcagttgta cttcaatcct gcaactgtga aaatgctaag taacctaaag gtactggtta 300

tagctattct tctgaaattt ataatgagaa ggagattctc agctattcag tgggaagctc 360

ttgctctatt gcttattgga atcagcatca atcaactccg aact 404

<210> 37695
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-032-Q1-K1-B7

<400> 37695

caccgaccgc ggatatggcc ccgtcgcctt ggcctctcct tgcgacttcc ctcctcctca 60

tcctattcca ccactcgcct cgcgccgcgg cggcgtttcc gccgtctctt ggcgacggcc 120

tcctgggcgc cgaccgcgcg ccgggtttcg cggcgtggct gctcggcttg cggcgccgca 180

tccacgagcg ccccgagctc gccttccagg agcaccgcac cagcgagctc gtccgcgacg 240

agctcgacgc gatcggggtg ccgtacgcgt ggcccgtcgc gcagacgggc gtcgtggcga 300

ccatcgccgg cggcagcgat ggccccgtcg tcgagctccg agccgacatg gacgcgctac 360

ccttgcagga attggtagac tgagaacaca ngagcatgga gaatgggaag atgcatgctt 420

gtggacatga tgctcacaca acgatgcttg ttggggcagc 460

<210> 37696
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B8

<400> 37696

cccacgcgtc cgcccacgcg tccgtccacg cgtccgcgga cgcgtgggca acaattatgg 60

tcactaaggt ggatgaacca tcaaaatacg gtgttgtggt tatggaggag gcaactggca 120

gggtggaaag gtttgttgag aagccaaaaa tatttgtggg taacaagatc aatgctggga 180

tttacttact gaacccatct gtccttgacc gcattgagct gaagccaaca tcaattgaga 240

aagaggtctt ccctcaaatt gcagctgatc aacagctcta tgcaatggtc cttccaggtt 300

tttggatgga tgttggtcag cctagggact acattactgg cttgcgtctt tatctagact 360

cgattaggaa gaaatcagct gccaagctag ctactggagc acatgttgtt gggcatgtgc 420

tggt 424

<210> 37697
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B9

<400> 37697

cggacgcgtg ggtgaagaca cacacggttt tttcctacta gctcgacctt agttcctgcg 60

agtcctttgg ttgtacgatg ccttctactg attcatgtct cgttcggtta tgtgtgtcat 120

cactcgtcat ggcgtcggtg aagcggcttc gggtgacagg gaaggacaag atcgtgcggt 180

ggtgcgccgg gaagcaacac ttgctcgcca agaagaacac caggcgcaag aagagactct 240

ccaagatggc ctatcgttgg aaatgaaggg acacgtcggt cctctgtcca acgagaatag 300

cacttgtctt atgctaatat tgccgctgga caaacgaact ctgtgctttt gtgtgaaagc 360

aatactagct aatagactgt tcggatttct aatgaacca 399

<210> 37698
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C1

<400> 37698

cccacgcgtt cgcccacgcg tccggacatg gccttaccaa cctttccaca aggttcatcc 60

ggtttacctc cttagtaagg gtcaatggca aggagacatc taatggcaat ctttctacta 120

agaactcgtc gagaaagaca tcttgcacag ccgaggagaa accacaatgc aatgggagct 180

taaatggtgg tggcggctct gccgatgaga agtcaactgt aggtatggag caacacaatg 240

gtgttcagaa gaatgttggc agtagcaagg tccagccaca tggacatgca actgaataga 300

gtgggactta tagtacatag acaacagaaa actgaagaga cgaggagttg aat 353

<210> 37699
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C10

<400> 37699

catgcgtgca ggaagatccg tgaggccagg ggtgattgtt actcggggtt tacctgtgcc 60

tgctagcagc cggtaccttg tgcgtatgca cttatgtgac attgctagca aggctctgta 120

tgagctctac ttcaatatct acgtcaatgg tgatcttgca gtctaggatt tcgatctctc 180

cagtgcaact ggattcttgg cctatcctta ttacattgac tttatcgtcg atgtgaagga 240

tgaggggata ctgaaattgg cgattggtgg cttaaaagaa gagtcgatct gatg 294

<210> 37700
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A5

<400> 37700

ctccaccagg gaggctactg cggtggcatt gtggcctggg gtagaggagc tgttgcagcg 60

gttgcgctac ttcaacctga ctgtggcaat ctgctatgca aagggcatgc caactaatga 120

ggtgctctac tcatctacat tattattaca tgcctctaaa ggtgtatctt cagaagttca 180

catcgaccgt atttgcttac tctagccata cttacccatc atggtccatg gggcgtgtat 240

attatcatgc catcttcaaa gaatggcatc aatgctacaa aaatgaatga gaaatc 296

<210> 37701
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-G5

<400> 37701

cggacgcgtg ggcggacgcg tgggaagaac actgtatgac caagatgtcc tagctgaaga 60

tactatagtc ctttggttcc gtaaaggttc aaacccgaag ggcaggcaat cttttgtgaa 120

agctctggag ccgtttgtca aatggctcga ggaggctgan gaggaagaat aagctcttga 180

tttggagatt ggccgaatgt gacgaattat ggttctcgaa aatattacct tttcttattt 240

cgaaagctat gaaaggttga ggagttatgg ttgctgctag ttattgccga gtttgttact 300

ggcgatagat ttatgttatg ctngttangc acttggctct cagctgcagt atgttgctgt 360

taaggtgttg 370

<210> 37702
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G6

<400> 37702

cggacgcgtg ggcggacgcg tgggcagatt cctggacgaa catcatcgtc taggtgatga 60

tactctcacc ctcaggactc gtggttgata aaaaccgaag ggcaagcaat acttttgtga 120

aagctctgga gccgtttgtc aaatggctcg aggaggctga ggaggaagaa taagctcttg 180

atttggagat tggccgaatg tgacgaatta tggttctcga aaatattacc ttttcttatt 240

tcgaaagcta tgaaaggttg aggagttata gttgctgcta gttattgccg agtttgttac 300

tggcgataga tttatgttat 320

<210> 37703
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G8

<400> 37703

cccacgcgtc cgcggacgcg tgggccagat taggaagatg aagggtttga agcagaagaa 60

ggctcacctg atggagattc aggtcaatgg tggtaccatt gctgacaagg tggactacgg 120

ctataaattt tttgagaaag aggtccctgt tgatgctgtc ttccagaagg atgagatgat 180

tgacatcatt ggtgtgacca aaggtaaagg ttatgagggt gtggtcactc gttggggtgt 240

cacccgcctt tcccgcaaaa cccacagggg tctccgcaag gttgcttgga tcggtgcatg 300

gcatccggct agggtctcgt ata 323

<210> 37704
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G9

<400> 37704

cccacgcgtc cgagactgaa cagcagtccg agacgccatg aacgtggagg aggaggtcgg 60

gaggctcaag gaggagatcc ataggctcgg ccagcagcag cccgatggct cttacaaggt 120

caagtttggc gtcctcttca acgacgaccg gtgtgcaaat atctttgaag cactagttgg 180

caccttgagg gccgccaaga agaggaagat cttgacctac gaaggcgagc tgcttctgca 240

aggtgtccat gacaacgtgg agataaccct gttgccccca cctgcagttg ctgccgcttg 300

aaacgaagag caccaccaag ttctcgattc catacaactc ggatgcttgt attctgccgt 360

gcctatatta gattctctc 379

<210> 37705
<211> 369
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-H1

<400> 37705

agaaactcgc catattcaca gcccttgcat tttctcagaa gctatcaggg cttcctcctg 60

agactgtgtt ccagccattg ctcaaggata atcttgttgc caaagggata gtactttcat 120

tcattactga gtttttcaag gagtaccttg aggaaaacag cttggatgat ttgattgcac 180

ttttgaagaa aggcaaaatg gaggacaatc tgttggactt cttcccatca gctaagagat 240

cttctgaggc tttatctgag catttcacca aagaaggtct gactagcctt gttgagtaca 300

acgaanagaa gatgtttgag gttaaactta aggagataaa gtcaacactg actgctatga 360

taaatgatg 369

<210> 37706
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-H11

<400> 37706

tctagatcgc gagggccagc ctttttttt actttaatct aacctcaact cctgaaccga 60

gcagcctgtt tttttgaacg aagaataaca tggggatata ttacgacctt ttcatttgca 120

atacagttta caattggaca cacccctgca aacacacacc tttttcaacc aatggatttg 180

gcaccagagg ggcccctaga ccctctaaaa aacagggagg atcatggttt t 231

<210> 37707
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-H12

<400> 37707

acggcgacat gcagcagcgg tcggcctttt ttttttttt ctccttgcgg gtttataggt 60

gaagaccaca atctgagata tgaacgcagc actgctatgt aatattgtac tgcactcagc 120

agaatgttgg aagaatactt ttcattaccg actcgtttgg atcattgg 168

<210> 37708
<211> 311
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-H2

<400> 37708

gcgccatcga ccgcgaggcc gtgttcacgt acgcggagga cgcggccagc gccagcctgc 60

cggtgatgca gaagctgcgc gccgtgctgg tggaccacgc cctcagcagc ggcgacgcgg 120

agcgggagcc ctccgtgttc tccaagatca ccaggttcga ggaggagctt cgcgcggtgc 180

tgccccagga ggtggaggcc gcccgcgtgg cggtcgccga gggcaccgnc cccgtggcga 240

accggatcgc ggacagccgg tcgttcccgc tgtaccgctt cgtgcgccag gagctcggct 300

gcgtgttcct g 311

<210> 37709
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-H3

<400> 37709

cattgagata cctactgctc ttttgcaggt ccgcggatgt gtgtcgccct acatgtcgac 60

gaatgtgctt cacaagatat cagaaaggga tttgaatgct ggtggatgtg ggcgccagca 120

atggcggaga tagacctggg ttgctgggtt ctgacccgga gagcattaac cggactggag 180

tttcaaggtg gcagcggttg ccttcagctc ctaagattag atatggtaac tgtgctgtgc 240

aacttctctg gcaaattagt agtcacggag atctgaatgc aacttcctgg attcattgaa 300

ttgaaatact ataattctgt ggcaagttac tccctttgct tttgcctttg aattgattag 360

tttagagaaa gata 374

<210> 37710

<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-H5

<400> 37710

aaaaaaaaaa aaaaaaatca aaaaatcatt ttttaaacta cacaaaactt acttcggaga 60

ggctaattac taacaatggt aaaagaaaac aactactatc aaagggataa ggtcaaagaa 120

tcattactga actatttcaa gagaagcact tctggaaaac acattgaatt acttgattgg 180

acttttaaaa aaaggcttcc cggttgatca aac 213

<210> 37711
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-H6

<400> 37711

gccccaagtc tcctctgcaa aagtcttgtt caacgcaggg tcatcagtga tgatgatggt 60

ttctttcaaa ttgcccgatg taacctgtca cagctcaatg ccaatgtact tcaatctgtc 120

taaggcgtaa atgtatggat catccttaaa atctgggttg acaatcatag gtgcctacca 180

tttaccctgg tagttaggac tcttgatttt ctt 213

<210> 37712
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-H7

<400> 37712

cccacgcgtc cgggggagct tcttatgctc agcaggctgc atatcctgca tatggaacgt 60

atgactacag ccatcaaatg ccacagcctg ctcctcaaac agctgcctat ggcgcttatc 120

cttcaacata ctctgttcaa gcctatacac aacaaagcta cacacaacct gcagcaattc 180

cggcagcacc agtgccagca gtggtaccag cacctacacc ggcgtcagct taccctcagc 240

aacctggggc agcttcctaa ccttattatg gaacaaccta ctactgacaa gtagagtaaa 300

tcttcgatg 309

<210> 37713
<211> 115
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-H8

<400> 37713

tcgcccacgc gtccgcggac gcgtgggcca caaggtcagt ttgagcattg gtttcaaagg 60

tcattaaata tttatcctga gtgaaaattt tcacaccaga agagtnatat tcttt 115

<210> 37714
<211> 84
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-H9

<400> 37714

cgtacacaac ccttagctac gctccagtgt ctttaccggc cggctgccct gatgccgagc 60

acggcgtttg cagtggtgga gctt 84

<210> 37715
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A1

<400> 37715

atttgatatc catcaataaa atcgataaat tatattatgg tgcaccttat cttttatttt 60

actagaacac agtgcaactt ctatatattc ttatttgtaa cttggatatg ctgcaaaaat 120

aataaatatt actagatcct tgcaaagaga aggagaaata ataaaatcta gaaaagaata 180

atacaaggga gctttgaaat gaaatattat ctatatacaa accttctatg gattgaaaag 240

accgtttaat ctggtactgg atttcattat atttgattca gctcctcagt gcaggtatgt 300

actgacttca gtatcatgtt tattttatgt tctgaagtac aaatgccttt gtagggccat 360

aaatactttg cttttact 378

<210> 37716
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A10

<400> 37716

ggcttttgag gcatatgcta gtgctgcaat gcagattgat gagctctctg cattctattc 60

atggtgtaaa gatactggag ttgcaaggtc atctgagtac ccaaaggtgc aagcggtcac 120

tgataagctg ctggagacgc tagaagagtt catgagggac cgggcaaaga ggcctaagaa 180

cccaccacgg gagcctgaac ctgagcctgg taaagaagaa cctgagccgg atattaacca 240

gctcaaagcg cttacaggac cagaagatta taaggagcct gaacctgttt aagtcgaaga 300

agaggtgaag cccgaaccaa ccccacagtc acaaggggac ttggt 345

<210> 37717
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A11

<400> 37717

caccgactga gcagtgggtg ggggatattt agcggttctt gatcctgcaa gaaaggggc 60

catggcgcga gcggctagca tgccagcggc aactgcggtc gggatcgtgg tcgtgatgct 120

tctggccgtc ggcttccccc tcgcggaagg taaatcgtgc acgaacgcgt tgcctggatt 180

gacctcacac acggagcgcg ctgaggctca tttgcaggca gcggcgccgg ctacggtgct 240

ccagcccatg attcaccgac accgacatgg tcacgagcag gaccttaccc cgacggacga 300

atacacctgg atgtagctca tgccacaccc ggcgcttcag ttcgaggagg cgttcgactg 360

gcttatgctc taccgtgagc tacgggg 387

<210> 37718
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A12

<400> 37718

ggatacccgg gccgacccac tcgttcggac tgactgagca gtgtttgggg gatatttatc 60

gggtcttgat cctgcaagaa agggggggca tgttcgagcg gcaagcatgc caacggccac 120

tgcggtccgg atcgtggtcc tgatgcttct tgccgcccgc tttccgctca cagaaggtaa 180

atcgtgcacg aacgcgtatc cggggattga ccttgcacac ggagcgc 227

<210> 37719
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G4

<400> 37719

gctgaatgct cagaagatca ctcacaagtt agtgaaacga agataccaga tgctggtcgt 60

atgggagtaa tatgtgcaca cactcatggc aagctctatt atgacgaatt actgagcctg 120

cgctctaatc aatcgaccgc aagacgctca gcctatgatg actcccttgc ggcttgacct 180

tacatatacc tacagcccaa tggacattca cgagggttgc cactactctt a 231

<210> 37720
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A2

<400> 37720

catctcatgt acgacggtaa ggacgacatc ttgttcgagc acttcagcgc ggtggcgcag 60

aggctgggcg tctacaccgc caaagactac gccgacatcc tcgagttcct ggtccagagg 120

tggaaagtcg cggagctcac agggctgtct ggagaaggga gaagggcgca ggactttgtc 180

tgtaccttgg cgccgaggat caggcggctg gatgatagag ctcaagcgag ggctaagcaa 240

gcaccggtta ttcctttcag ttgggtttat gaccgcaagg tgcagcttta atcaagaacg 300

ctaggcaatg tgggcatgta ctacgtatat cattttcagt cctggggttc tctataagaa 360

acagtctcta ggttatctag catggtagaa ttcaactact cgtggatctc actcggtgca 420

aagtattgca aagtacgcta tcttggtgta ccgtgc 456

<210> 37721
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A3

<400> 37721

acgcgtacgc ttgaccacag acacgagcga attgagtcta tgcgcaactg tgccgtgcag 60

ccatggcgac tagggtacgg ctcaccaccc tactcctaca cttactactt gttggcaccc 120

acttcaccag ccgagtagct aaaactgatt cctaggaaaa tgctgatgca gctgaagttg 180

gtgaatgcgc tgatctaggt attgaggctg atgatacaca gagttccagc gacggacctt 240

taagccctgc tactggcgta cagacagtag tatgattccc caaacatgct ggcaaaatag 300

cactagcacg tgaagaaact gaattactag ttggtct 337

<210> 37722
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A4

<400> 37722

gttgccacga tatggtcttg aagttggtct gaccaactat gcagctgcct actgcactgg 60

ccttctgttg gctcgccgtg tgctcaagac ccgtggttta gataaggaat atgagggcaa 120

tgttgaggcc actggtgagg atttctctgt tgagccagct gatgagagga ggcctttccg 180

tgctctcttg gatgttggcc ttattaggac tacaactggg aaccgtgtct ttggtgccct 240

caagggagct ttggatggtg gcctggatat tcctcacagc gagaagaggt ttgctggttt 300

caagaaggat gacaagcagc tggatgctga tatccatcgc aagtacatct atggtggcca 360

tgttgctgac tacatgagga acctcgctga agaggagcca gagaagtacc agtctcactt 420

cagtgagtac attaagaagg ggaatgaagc tgatgacatg gaa 463

<210> 37723
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E8

<400> 37723

tcgagctgca gcaggagcac taactgatcc aacttctgag ttcccttctg gaagaaggcc 60

agctgattta gcttcagtaa atggacacaa ggggattgct ggttttctcg cagaatctgc 120

tttgacaagc catctgtcag cacttactat tagggaatca aatgatagca ctgtagaagc 180

gtgtgggcta ccatttgctg aagatctcac tggcattgat tctgtccatc tcgctggaga 240

gggtcctgat gctgaatcac ttgaaggttc tttaagtgcc gtgcggaaat ccactcaagc 300

tgcagctcgt atatttcaag ccttcagggt ggagtcattc cacagaaaga aagtcgtgga 360

atacggagat gacacctgtg 380

<210> 37724
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F1

<400> 37724

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggtg cgcgtcgaac 60

cccaatgtct cgtctgtgat cactggagcc accaaagaaa gccagattgt ggagaacatg 120

aaggccctag atgtcatccc actgctgacg ccggaggtcg tcgacaggat cgaggcggtg 180

gtccaaagca agcccaaacg caacgtcgag tcatacaggt gaaaattcgg tgttcatccg 240

acggagttca ggcctcctcc acgaaacttc atccatgatc cgtgtgtatt ctgggcgtgg 300

tgctgtgttc acaaacacca gtctgtcagt cctgtgttgt gtattctgct ttccgataca 360

gattttggac caatc 375

<210> 37725
<211> 367
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-F10

<400> 37725

gcgatacccg gttgaaattc attatacaaa agctccagag gctgattaca tagatgcagc 60

aattgtcact gttttacaga tacatgttac ccaatcccct ggcgatatcc tggtgtttct 120

cacaggtcag gaggaaattg aaacagttga tgaaatcctt aaacacagaa caaggggctt 180

aggcaccaaa atctcagaat taattatatg tcctatttat gcaaatctgc ctaccgagct 240

tcaagctaag atatttgagc caacccctga gggtgcccgt aaggtggttc tggccactaa 300

tatagcagag acttcattaa ccatngatgg tataaaaata tgtattgatc ctggcttttg 360

taagatc 367

<210> 37726
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-F11

<400> 37726

cccacgcgtn cgcggacgcg tgggtataaa ctctgataaa gctgttatcg tatctgcatg 60

tccccagtca agagcatcac tagctgcatt ctttggtctt tctcagtcac aggttctcag 120

aaaactgact tctttgttca agtcgattgg tgtaaaggct gtttttgaca caagctcgag 180

tcgagatcta tctcttattg aagcatgcaa tgaatttgtt tcacggtatc agagaagcca 240

accatctaga ggccaagaag ctggagccaa tcttccactg atgtcatctg catgtccggg 300

ttggatatgc tatgctgaaa agactcttgg ttcatacata ttaccttaca tctcatctgt 360

a 361

<210> 37727
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F12

<400> 37727

cccacacgtt cgcggacacg ttgatacaaa ctttgaataa gctgatatcg tatctgcagc 60

tacccagtca agagcatcac tagctgcatt ctatggtctt tctcagtcac aggttctcat 120

aacactgact tctgtgatca aatcaattgg tgtaaaagct gatcttgaca caagctgcat 180

tcgagatct 189

<210> 37728
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F2

<400> 37728

actaactgtt gcatcttctg actccccttc tcgcatagag ccgaggttat ctagcttcag 60

agcacggaca ccaccaaata aatccatatc tcgcagaaca tgcttgcact agacatcagt 120

caactcttac taccagagaa tcaaatcata accctgtcta agctccaaag ctaccacaaa 180

ctcaacatct cactatcctt gagactatcc atct 214

<210> 37729
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F3

<400> 37729

cctggagggc atgtccatga cgccgcctgc agccccaccc acggtgacgg aggcctactg 60

cctgctcaac cttggggaca gcatcaccac ggaccacatc tcctactcgg ggaagatccc 120

cgagggcaca cctgcggcca agtatctgct cgagtatggc gtggagccca agaacttcag 180

ctcctatggt ggccgccgcg ggaacaatga ggtggtgatg aggggagcgt ttgccaatat 240

gaggatcgtg aataagcttc ttgatggcaa ggctggtccc tggacgatcc atgttccttc 300

cggggagaag ctctatgttt acgacgcggc aatgaagtac aagtcggaag gtcatgacat 360

ggtcatcatt gctgg 375

<210> 37730
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F4

<400> 37730

cggacgcgtg ggaccgggct ccgagagcat ttctaaccaa ggcagtgcag cggcaccagg 60

atccatttca cagcggattc tactgccact gctgctgatg gtggtggtct cactggtcgt 120

cggttacgcg atgtaggtcg aggatggagc gtcgtcccac ggcaacacta gactgttttt 180

tttaatccgc aggacagggt agagctgata gcttgttagg gtggtgatac acttttggat 240

atgtattgta ctgctgcgtg gttacgtttt ggcgattggt ttgtgtagtg tagatgttac 300

ccggccgggt catttt 316

<210> 37731
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F5

<400> 37731

cggacgcgtg ggaaaaatat gataatagtt ataaaaaaaa gataactata aaaacgaggg 60

gtataaaaaa aaaatacaaa acgcaatata ctgaagcact tattacccct aacacagaga 120

tcaagtggaa ggaccgacat tcccgtgact tcaatgaaag tctgtgatga agttctggtg 180

aggaaacagg gcgccaaccg tcacactggg atagagattc aggagtttat tgttgagaga 240

tgaatatgga aactctgaat gcaccagttt tcacgtcatt gcgaacatac taatgatgtt 300

tgattgcaac atacatctgt tctgttggtt aagattgtga gattccattg cagcgtaata 360

tcgtttgggc ccctttt 377

<210> 37732
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-F6

<400> 37732

gccatgtgga ggagggcttt agcgatggtc ctgttcatgg ctggcgccgc gctgctcgcc 60

ggggctgccg gcgccggcgc gcagcagggc gtgtggagca tcatcacccg gcccatgttc 120

cagagcatgc tgagccaccg cggcgacagc gggtgccagg gcgccttcta cacctacgac 180

gccttcatcg aggccgccag caagttcccc ggcttcggca ccaccggcga cgagcagacg 240

cgcaggcggg agctcgccgn cttcttcggc cagacgtccc acgaaaccac cggtggatgg 300

gcgactgctc cggatggacc gtttgcctgg ggatacttgc cggtgaagga acagaaacag 360

acgggcccac cctac 375

<210> 37733
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F7

<400> 37733

ggtacttctg gaccatgatc catcccttgg gaaaacgttt ggccaatcga atgtgactcc 60

tctcataact gcggcgatta gaggccacac tgaggtggtg aacctactgc tggagcgagt 120

ttctgggttg gttgagttat caaaagcgaa tggaaagaat gccttgcact ttgctgcccg 180

gcaggggcat gtggaaatcg tgaaggcttt gctagatgct gatacccagc ttgctcggag 240

gactgataag aaaggccaga ctgctctaca catggcagta aaaggtacta acccggaagt 300

tgatcaagcg cttgtgaatg ccgatccggc aatagtcatg ctacctgaca gaaatggcaa 360

cttagctctg cat 373

<210> 37734
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F8

<400> 37734

cccactcgtg cgccgacacg tgtgcggcga tatcacgtcg cggcaagggc atcaggggc 60

tgtgctaggt ccgcgccaag caccaccgac tggtgctgcg cgacaacatg cagggcatca 120

cgaatccggc gatccagatg ctggccacga agggcagcaa taagcgcatc tctggtctca 180

tgtacgagga tacccgcagc gtgctcaata tcttacttga gaacgtcatg cgcgacgcca 240

tgacctacac caagcacgcc cagtcgtatg accgtcaccg tcatggatgt cgactacgc 299

<210> 37735

<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F9

<400> 37735

tcgcccacgc gttcggttat tgctgggcta tccacttttt actgctatgc aagagctggc 60

agcgggggtg ctattagaga ttgtatcacc gttgtttgtt catcacacaa ctcacagctg 120

ttaaccacca cacatgtatc caaagtaaag gcatttgaac gctgaagtgc aacacgcacc 180

ctaaccatgc acgatcgacc tgtagacgac ggcaccgact ccgtcatcca tgctacattc 240

accgatcacc ctcaggacga ctcgcctgag cccaatgtca actgcagctc aaccttgacc 300

cgaacttggc attttgctgg aaccattcca cttggctgga ac 342

<210> 37736
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G1

<400> 37736

cccacgcgtc cggcaccatc cacgggttct aatgaagtca agacgggaga aacttgaaag 60

tcgcttcatt ttggatgtga ctgttcttga tggaacactg atgacacctt ctaccccgtt 120

cactaagatt tggcgcatgc ataacaatgg gtctgttgtg tggccacggg gcacacagct 180

tgtctgggtt ggtggagatc agtttgcatt gcagacatct gttccattag agattcctgt 240

ggatggtttt cctgtggaca aagagattga tgttcctggt tgatttgtgg cacctacaag 300

accagggagg tacatatctt actggaggtt ggcttccctt tttgtcagaa atttgtcaac 360

gaagtt 366

<210> 37737
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G10

<400> 37737

caacaattaa accagatggc ggattggagc ttgttgttgg gatgatgcat gcacctttga 60

agtttcagaa tgttgtcctc aaatgcagct tgtggttgtt gaacctattc tacttgcttc 120

tggatttaag ttatagttta ttaaacatat ttgatgttta atacttgtgt cggatgattt 180

atgcttcaat tatgtggatg ctagaaaaaa aaaaactaca aaagcaaact gatatatgaa 240

agagaacatg acaaacatgg agataaccct gatgccccca cctgctagtg ctgtcgcttg 300

aaacgaagaa cacctcccta gttcttga 328

<210> 37738
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G2

<400> 37738

cctggttgaa tgggcacgcc cttatctggg agaaagacgc agattctata agcttgtaga 60

ccctcgtttg gatgggaact tctccataaa aggcgcccag aagacggctc agctggccca 120

tgcctgcctc agccgtgacc ccaaggctag gcctctgatg agccaggtgg tggaggtgct 180

gaagcctctc cagaacctca aggacatggc cagctcttcc tactacttcc agtccatgca 240

acatgagcgg cgcacagcac ttgccaaccc atatggcagt caaagcatga aagcgcagag 300

caccttgcg ccggacgggc agcagcccat gaggagcctc tcgtatggcc ctcatgcttc 360

cccgtat 367

<210> 37739
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G3

<400> 37739

gtaaaatgct cagaagatca gtcacaagtt tttgaattga gggtaccggc tgctggtctt 60

atcggagtaa tttctccaaa cactcttggc aagctttatt ctcttcaagt actgagcctg 120

cggtctaatc gattgaccgg aagtcttcca gctgatgtgg cctcccttcc gtctttacgt 180

tccatatacc tacagcacaa tgaactttca ggagggttgc cttcttcctt cagtcctaac 240

ctcagtgtaa tagatttctc ctacaattcc ttcacaggag aagtacctgc aagtttacaa 300

aacctcactc aggtaaccgt tcttaatttg caagataact ctttctctgg atccatccct 360

gacctcaagc ttcac 375

<210> 37740
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E5

<400> 37740

atccggagca gccgcagtcc caccgacctc gccgccggtc gccctccatc tcctggccgc 60

tgcctctcgt ttctcttttc aataatcaag atgagccgtg gtggtagtgc cggtggtggt 120

caaagttctc tgggttatct ctttggaagc ggtgagcccc ccaaaccagc agtggcacca 180

gctgcaagtg ctccacctgt tgagaaacca tctgctgcaa agactgatgc ggccaagcag 240

gttgctgctg gggttaccag ccaaaccaat aactaccaca gggctgatgg tcagaacact 300

ggcaacttcc ttacggaccg tacttcaacc aaggtccacg ctgctcctgg cggtggctct 360

tccctgggct acccc 375

<210> 37741
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D1

<400> 37741

cccacgcgtc cgaattgtac atggaggtgt tggctatcat atggtaaact gcggtttgat 60

actgttgaag atgttatctg aatatgttga catcagtaaa tgtttaccat cactatcttt 120

ggaggtggtc caacgtgttg tggaaatatt gaagcttttc aacactagga cttgccaact 180

tgttctcggt gcacgggcca tgcacgtgtc tggacttaaa tcaattacat ctaagcattt 240

agctctggcg agtcaaatca ttagttttat acattcttta attccagata tcagacgagt 300

gctcttcctg aaaatacctg tagcacgcaa acagttgcta atgtctgagc tggatat 357

<210> 37742

<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-D11

<400> 37742

cgccattatt aacagctccg cggtccctcc cttcctcggt cggtcggcgt cggtccctgg 60

ccgtacccac ccagttagtc ctcagcctat cccgtgcccg cgcagagcac cggctctgct 120

cgacccacca ccctctgtgc agagttaatt aaccttgagg tttccgattg cccttacctt 180

ccgctcctct cgcccattcg cggcgagatt cagcggcaag gatgcgcctg cacgcggagg 240

tgcgggatga gatggaggac gggagcgagg tgggggctgt gacggcttca gcggggctgt 300

cgtcaccgac actcatcggt gcggcggcgc cggttccccg gctagtggtg gggttcgccc 360

tcacgaagag gaaagtgaag agcttnctgc agcccaagct gctcctgctg gccaggaaga 420

atggaatcag t 431

<210> 37743
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D12

<400> 37743

gaggtggcgc gtggacgcca cgctcgcctc agtcttaggg atcgagggcc ctttccgtgc 60

gcgtggctgc tgctcctctc gtctctcctc ccacccgtcc aaggcatgga gcactgctat 120

gtgggacagc cgatctcgag ggccgaggca atgcccgaga ggaggtccag gttttggcag 180

atggatgcgc cccctccgtc ccgggcggag gtcatctgcc cccagcctcg ccgcgccacc 240

cggattcccc tcgccgctgt ggaaaccctg aacaaagcca gccccaagat gaacggtgca 300

tttccgccgt acagatcgga ctccacttgc gatatacttg atcttatcct cagtaagaat 360

gacctcgatg gagattcgag cagccatgtg g 391

<210> 37744
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D2

<400> 37744

cagcgacctg cttgaagggg atgcggcggc ggcggcggcg gcgcgccgga gcttggttca 60

gtggagcggc gccttcacgg agttgtccca gagatcgaga agcaagagca agatcttgga 120

ggctgatggc aagggaagtc ggcgcggcca tgcccggtgg ctttcggcag atatgacgag 180

caacggcagc ggaatggagg ttggtaaatt ctcccaagac gatgtttcaa gatgtcctga 240

gaaaacagtg aacctacagg atctgcagaa cagcttgatt gcatctaagg agcttgtaaa 300

agtacttgcc cacatatggg gacctggaga actgaatccg tctagtgtat cactcatt 358

<210> 37745
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D3

<400> 37745

cagagacctg cttgaagggc atgcagctgt tgcttctgat gcgcgccaca gcttgttgga 60

gcggatcaac acctccactg agttggccca catatcgaga agcatgagct cgatcttgga 120

ggctgatggc caaggaagtc tgcgcggaca tgccctgtgg ctcactgcag atatgacgag 180

caacggcagc ggaatggacg ttggtaaatt ctgccaagac gatgtttcaa gatgtcctta 240

taaaacagtg aacctacagg atctgcagaa caccttgatt gcatctaaag agcttgtaaa 300

agcacttgcc cacatatcgg gacctgcaga accgaattcg tctagcgtat cactcatttc 360

t 361

<210> 37746
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D4

<400> 37746

atgaatttta gtgagaatag agacaagtgg tgttgtgtaa tggcacttgt aaagagagac 60

agtacaccta gggttggtcc attgatgatg aacctctgtg caaactttgt caaggacttt 120

gcaatggaag gcttgcagag tcaacataat attttgaaga tctattatgt ggtctagctt 180

gtttctagga atacagatta agaaccagtg gtagagccct acggcagttg agtcttcttt 240

ttgttactca cataagtcaa cattttttgc tggttccatt gaatagttag gactattttc 300

agttattcaa aatcaaagaa agttgcaagt taattcatat atatgtaata aagt 354

<210> 37747
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D5

<400> 37747

gcagatgagc aggtcgtccg cagtcgttgc cggatgaggc gcagtggttg tggctgcata 60

atgctccaaa ttccaaagga aagaagggct cagtgagcaa actgggtgat catgcatttg 120

ttggcatgca gtttgtatga agagaattgg aagtctgaaa cgcgtagatt agacggtagc 180

accaagccgc tctagaaaca ttggctgatt gtcagactta cactgctggt tctgtttctg 240

aaattcaaat gccacttctt aaattccatt atatcctggt gggag 285

<210> 37748
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D6

<400> 37748

cccacgcgtc cggaaacaat caaccagcaa cactcttctc ttataacata gtacagcgaa 60

ggtaactcac atggcaactt ccatgggttg tctcgtcttg ctctgccttg gttcttctct 120

tcttcccagt gccgtccttg ggcacccatg gggtggcttg gtcccacaag tctattaaca 180

ttcctgcccc aaaggcaaag gaaat 205

<210> 37749
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D7

<400> 37749

cccacgcgtc cgcccacgcg tccgggcgtc ttcacaaacg ccggcgcata ctctcgcggg 60

agcccgacag atcttcaatt ccccattccg cccaccgatc gaccttcacg ccagtctcgg 120

tctcttccga aggcgtcgcg cgcggttgtt tgagaggaga ggaggaagat gagggagtgc 180

atctccgtcc acatcgggca ggccggcatc caagtcggca acgcgtgctg ggaactttac 240

tgcctcgagc acggcatcca gcctgatggc caagtgcctg gagataagac cgcgggacat 300

cacgatgatg ccttcagcac ctttttcagc cagactggtg ctgggaaagc acggtccccg 360

tgcaatc 367

<210> 37750
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D9

<400> 37750

cggacgcgtg ggcggacgcg tgggctgctg tgaataagca actgaacgac aaagaacgtg 60

ttgcggctgc attggagaac ccaaacctac tggacatggt cgaagagtgc ttatcaccaa 120

catttgattg aggcctgaat atcaatatat cggtgtgaca tggtgttgat gttcaggagc 180

cacacatgct cattgccaat ggagttcact cctgtctttc gagaaccaaa atgccttggg 240

tgttaagtga cgtgttgcat gatttttttc ctccgccccg ttcagttatt atatatgcta 300

ctatggcgct acccttttttg gacgtttttg gtgcttgtga cctcactgat caatgcgaga 360

tgtaatcagc tcttgtgctg gagctttcag agtgctgtcg ctgtcactgt cagtgccacg 420

ccatttt 427

<210> 37751
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E1

<400> 37751

cccacgcgtc cgcctgctcc tcacgccgcc gccgccgccg ccgccgccgt cgccgccagc 60

acatccgtag cgcccagccg ccggagaaga ggagggagcc agcaccagcc accatgggtc 120

gcgtgcgcac caagaccgtg aagaagacct tcaggcaggt gatcgagaag tactacttcc 180

gcatgaccct tgacttccac accaacaaga aggtgctgga agaggtctcg atccttccct 240

cgaagcgcct tcgtaacaag gttgccggct tcaccaccca cctgatgcgc cgcattcagc 300

ggggccc 307

<210> 37752
<211> 213
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-E10

<400> 37752

tccacgcgtt cgcatccaat agcagtagca gagacaaagc acacacacac acaatcgtgc 60

caatggccga cacggccgac gccccgctcc tgacaagcca cgggcaggcc aagcagctgg 120

ccaaagcgcc gtccatcgac gacaccatcg agacgtacat cggcgcgacc ggttccatgc 180

agctgctcag ggccgtnctg ctggcattcg cgt 213

<210> 37753
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E11

<400> 37753

acacacacac acaatcgctg tctgtgttca acacggccga cgccccgctc ctgacaagcc 60

acggtcaggc caagcacctg gacaacgcgc cgtccatcga caacaccatc gagacgtaca 120

tcgacgcgac cggttccatg cagctgctca aggccttcct gctggcattc gcgtgggcct 180

tcgacgcgca gcacatgttc atctgcgtgt tcacggacac ggagccgcag tgtcactgca 240

cgggcgcctc gtcgtccttc aagccggccg tacccccggc ctcgccgtgc gcgctctcct 300

acggcgcctg gacgtcggac ctgtcggtcc aca 333

<210> 37754

<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E12

<400> 37754

ctgctgttga gctgaacaac aagcttcgtc aagaattgga ccttctgagg cgagacatga 60

gcaggcagca tggtggtttc tcattagttt tagtactggt ggttgctatt ctgggaatac 120

tgctagggtt cctcatgaag agatgagcgc atgtaatgac ttatcttgtc tggcttttct 180

gaactaaaca aaattgtatg tgctctgtgt gcgcttgttg ttgtacaagt cagtggtctg 240

tttatcatag gatctgatg 259

<210> 37755
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-E2

<400> 37755

gccgcagccc gcagtcgctt gcgcgcagca gcacttcgca ccgncgcccc atcccatcgc 60

cggcagtgtc tgctcgatcc gatggctccc acgaagaagt cgaagaagag cacagagagc 120

atcaacaaca agctgcagct ggtgatgaag agcggcaagt acaccctggg ctacaagacc 180

gtcctcaaga cgctgcgcaa ctccaaggga aagctgatca tcatcgcaaa caactgccct 240

tcacttagga agtctgagat tgagtactac gccatgctgg ccaaagttag cgtgcaccat 300

ttccacggaa acaatgttga tcttggcact gcctggggca agtactac 348

<210> 37756
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-C9

<400> 37756

tgacagctat gcaagttatg gtggctccca ggcacctgga ggaggatatg cggcttacag 60

cggatacagt gcccgctcct ctagtagtgg gttatctggt catagttctc ttcactatgg 120

aaagcatcat ggttattagg atttagattg cttgataaag cagccaagac attgaagttt 180

ggagcctgct tattggagcc ccttcccaaa ccagatgacc aagagagccc aacctggaag 240

cttaggagga ctgtgtggat gccatagacc acctgatatt cctcacacta cattacttat 300

gtcttcttct gggcctatgt ttttagccct gccgcaaatg ttctgaacct atgtatcgaa 360

aggtcgcatt tgagactgca tgtatttgct tgtttggaac ctgcttcagt ttagtcgttt 420

ttttgaaaaa 430

<210> 37757
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E3

<400> 37757

gctgcacgcc accgtcgagc gcgcacccac ggcatgggcg cagccgatat ctgcagcacg 60

atggctctac tggaagcacc gctagttgga tgcagaagtt gccgcaagga aagctggagc 120

atctgcgaag cgagctgatt atatcgcttt agcagcgggt cacatgaacg gtcgcgagct 180

gttccaaaca tgaccctgag tgttcgacaa cagcttttac tgagatcgtg tactgctact 240

gaatctgca 249

<210> 37758
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B11

<400> 37758

tgaagaagag ggctttaagg tcctgacctt gtttaatccc attgacaagt atcctggggg 60

tcagctcaag gagtttgagg gcaagaagct tgtctctgcc accaaagagg gtctgaagct 120

tgatgagact gaggacgaga agaagaggaa ggaggagctg aaggagaagt ttgaggggct 180

gtgcaaggtc atcaaggagg ttctgggtga caaagttgag aaggtggtgg tgtctgatcg 240

cgttgtggac tcaccgtgct gccttgtgac tggcgagtat ggctggaccg tcaacatgga 300

aaggatcatg aaggcacagg ccctgtagga ctcgagcatg gcgggctaca tgtctagcaa 360

aaagacaatg gagatcaacc caaagaaccc tatcatggat gaactccgca agcgt 415

<210> 37759
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B12

<400> 37759

cccacgcgtc cgtgcagaag tgtgagatta tgcttaatga cttgattgac tcgaatagag 60

ccaattcgaa cattaaaaca tctttgctga aggcatctaa aactgttcct gggcaagagg 120

aggcagaagt gtctcatgat gttttggatg ccactataat atcatctaat ttttggccac 180

caattcagat agaagacctt gttgttcctg cttcagttga tcagttgcta tcggattacg 240

caaaacgatt tcaccagata aaaactccac gaaagctatt atggaagaaa aatcttggaa 300

cagttaagtt agaactgcaa tttgacggaa gaagcgtgca aattactgta gctcctgtgc 360

atgctgcaat cataatgcgg tttcaagaga aa 392

<210> 37760
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B2

<400> 37760

gcctgcaggg gcgaggcggc gttctgcagt ctggagtgca tggagcggca catgacgcag 60

gaggagtgga aggacaagtg cgcggtgacg tcgatcaagg acgctgccgc gggctcggcc 120

aaggtcaagg gccgccgtgc cggcttcggc aaggctgggg gcacggtggc cgcagcatga 180

cgacgatgct gatttgctga acctacacct agctacctag ctaccaccag cttctcctca 240

actagccagc tgcaagctcc gattattcac ccgtgcaacc atctatatac taaccatgca 300

tcatatatga tatatcccca gctagctcaa tcgattatta attatttgtt atccggatcc 360

atcgctcatc gctgcatgc 379

<210> 37761
<211> 366

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B3

<400> 37761

gggtttttga ttttagccgc cgccgctgct catctcacat ccctcgagaa gacgcctggt 60

cctggccgat cgatacgatg gccgtcttct ccgacctcca caccgccgac ggcctcaagt 120

ccctcgaggc tcacctcgcc ggcaaaacct atgtgtctgg tgactccatt actaaggatg 180

acattaaggt cttcgccgcg gtgccgtcga agcctggcgc tgagtttcct aatgccgccc 240

gctggtacga gaccgtctct gcggctgtag cctcaagatt ccctggtaag gctgttggtg 300

taaatctgcc tgcgggatca gctcctgcgg cagctgctcc tgcggatgaa gctgaagatg 360

atgatg 366

<210> 37762
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B4

<400> 37762

agctgaagat cctacgctgc atcactcact cccacgctct gagcaacacg tagataatga 60

tggacgcgtc ggcgtacatg aaggagctga agcagaaggt ggtgaggctg aaccaggaga 120

ttgcgtgcgc gcaggacgcg ctgagacaca aggcatcatc ctatcccacg gtgaccgtgg 180

aagccctagg agtgcacggg tcgtagttcc tggtgaacgt gttctacgac aagagctgcc 240

cggggctgct cgtcagcgtg ctggaggcct tcgacgagct gtggctcacc gtgcttcacg 300

ccaccgtggc ctgcgccgac ttcttccgac tcgaggacga gggcggagag aacgtggcgg 360

acaacgtgga cgagcacg 378

<210> 37763
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B5

<400> 37763

cccacgcgtc cgcccacgcg tccgcggact cgtgggcggc gcacatgctc gctgggggc 60

tcatcggctt cgtctggatc cagtccggct ggatgggcca cgactcgggc caccaccgca 120

tcacgggcca tccgctcctg gaccgcgtcg tgcaggtgct ctccggaaac tgcctcactg 180

gcctcagcat cgcctggtgg aaatgcaacc acaacacgca ccacatcgac tgcaacagcc 240

tggaccatga cccggacctt cagcacatgc cgctcttcgc tgtctccccc aagctgttcg 300

gcaacatatg gtcctacttc taccagcgga ccctggcctt cgacgccgcc ttgaaattcc 360

tc 362

<210> 37764
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B8

<400> 37764

attgccgtct ccctttgcg tgagcaaaga aagagagcga gaagagcagt cgccatgtgt 60

ggcatcatcc acaagatcga ggagaagctc cacatggggg gcgaccacaa gaaggaggat 120

gagcaccaca agaaggccga ggagcaccac aagaaggagg agggggagca ccacaagaag 180

gacggcgggg agcataagga aggcatcgtg gagaagatca aggacaagat caccggcgag 240

cacggcgaca agtccggcga ccacaaggaa aagaaggaca agaaaaagaa gaaggagaag 300

aagaagcacg gccagggcca cgaccacgac cacgacg 337

<210> 37765
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B9

<400> 37765

gtcgcaccgc gcaagctacg tcgcgcgact ccattgggca gggccgttgg cccgatagag 60

cagccaggtt catgctggat ctgctgaaga atgctgagag tcacgctgat gtgaaaggct 120

tggatgttga caacctctat gtttcacaca tccatgtgaa tcaggcccag aagcagatgc 180

gccgcaccta ccgtgctcac gggcgcatca atgcctacat gtcctcagct tgccacattg 240

agctgatctt gtgagagaaa gaagatcctg cgaagaaaga agctgacaac attgtcggat 300

gaaggaagca gtgaagtata tcaacatgct gatcgaggcc attttgacga agcattatag 360

ccgtagctct tttat 375

<210> 37766
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-C1

<400> 37766

gccacctaca ccgaaattcg gctggaagtt agtgtccgag atgggctatg atccactcgg 60

cgtgccttcg cgtggtgaaa tctgcatccg ggggaaatcc ctcttcgctg ggtactacaa 120

aagtccagaa ctcacaaacg aagccatcgt tgatggatgg tttcatacag gtgacattgg 180

agagatgacc ccagacggga tcttgaaggt gattgacaga aaaaagaaca tatttaagct 240

gtcacaaggg gagtatgttg cggttgagta cctggagaaa gtgtatggct tccctccact 300

cgttgaagat atctgggtat acggggacag tttcagatca agtttagttg cagtagtcaa 360

tccacaccaa gaa 373

<210> 37767
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-C2

<400> 37767

cacaggagcg ctcgacacgg ggtcgccagc gccgggcgac ccctctcgtc gccatcacgc 60

cccaataatt cactgcccac gcccgccatc gccaccactg gcgtccgcag cccgccaata 120

ataacgctcc caaagcagag gccgaaaccc gcgacgcgca gcgcagggcc agtggcgacc 180

tccagctcca gctccagctc cacacgcggg cgccaccaag gagctgagcc gagcccggca 240

ctgtcggcgg ccatgtccgc gccgcgtcgc cgcatggcca ctgcctcccc gtcgctccgc 300

ttcctcggcc tgctcaagca acccgacgac gccagctccc agtc 344

<210> 37768
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-C3

<400> 37768

cacaggagcg ctcgacacgg tttcgccatt tcctttcgac ccctctcgtc gccatcacgg 60

cccgaataat tcactgccca cgcccgccat cgccaccact ggcgtccgca gcccgccaat 120

aataacgctc ccaaagcaga ggcccaaacc cgcgacgcgc agcgcaaggc cagtggcgac 180

ctccagctcc agctccagct ccacacgcgg gcgccaccaa agaactgaac cgagcccggc 240

actgtcagcg gccatgtccg cgccgcgtcg ccccatggcc actgcctccc cgtcgctccg 300

ctttctcagc ctgctcaaac aacc 324

<210> 37769
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-C4

<400> 37769

gtagaagatt ctgtggatag tgatgatgga ggcaagtcac taatcagaga gatgccgcga 60

tatgaagctg aaaatgcaat tgctaatctg gtgaaagtgt ggataaaaga aagagtagac 120

agactaaagg gatgggttga ccggaatttg aagcacgaga cctggaatcc aggtgccaac 180

agggataatt ctgctgcctc ttacgtggag atgcttcgag ttattggtga aacgttggat 240

gcatttttgc aattgcctat accaatgcat ccgggtcttc ttcctgatct gacagttggg 300

ctcgacagaa gcctacagct ttat 324

<210> 37770
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-C5

<400> 37770

aagaaaccta tgctatcgga atacatgttt agagcagaat ctagtcttcc tagcataaca 60

gtgtaagaag gggcctcaga ccagaatgcg ccgatactgt tgaaattaga gataccatat 120

ttcaccgtat catgtattca ggtcctgtat gtgaagataa ttgaaatgag tggttatcag 180

gcactgctct gggttagata tatcacagtg gctggtgaat atgagctgag actgatatga 240

gttctctctt ctctggctgt cggacgactt ttgaagctgc aggacactaa agatacatat 300

ttgctatcga cacagcgaac agttttcatt cggatgttgg cctggaagtc ttctgccgac 360

cata 364

<210> 37771
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-C7

<400> 37771

cggcccctgg gttttttttt ttttttttt ttttttttt attttttttt ttttggtttg 60

gtttgccaaa aatctgattt aacttaaagc atcatataat tatcctcaaa ttacaatata 120

aacccagtct caaaacatgc taaaatgaat caaaaaggac cgtttacatt gcctacgttt 180

acagcaaagg acgttttcaa agggaaacca ttttcccaac gagccttagc catgatgcag 240

gaaaagcttg ccattcttgt cacaaaatgc ccctacttaa atctctgcct cattttccgg 300

ggctttcttt tgagcctccg cattcttttt tttttccact tggcc 345

<210> 37772
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-C8

<400> 37772

cccacgcgtc cgtcttgatc cagccaagcc agggatcgcc atgtcggact cggaggagga 60

ccacttcgaa tcgaaggccg acgccggagc gtccaagacc tacccgcagc aggctggcac 120

cgtccgtaag aacggcttca tcgtcatcaa gaaccgcccc tgcaaggttg tggaggtttc 180

tacctcaaag actggtaagc atggccatgc caaatgccac tttgttgcca tagacatatt 240

caacgggaaa aagctcgaag atattgttcc ttcgtcacac aactgtgata ttccgcatgt 300

gaaccgtact gagtaccagc tgattgatat atcagaggat ggatttgtga gcctttctac 360

ttcagatggc aacac 375

<210> 37773
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B10

<400> 37773

gatggtgttg gtggttgggc agatctcggt gtttatgctg gactatatgc taaggagcgg 60

atgagaaatt caatgagcgc tatcaaagat gagccagaag ggaccattga tccaaccaga 120

gttttggaaa aggcttatat tagtacgaaa gcaaggggt catctaccgc gtgtatcatc 180

actcttaaag atcagggtat ccatgctgta aatcttgggg atagtggttt cgtagtagtc 240

cgagatggcc gcactgttct caagtcaccc ttacagcagc atgatttcaa ttttacttat 300

cagctcgaga gtggaagtgg cagtgatctt tctagtttcg cacaagtatt tcacttttc 359

<210> 37774
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-H4

<400> 37774

cccacgcggc cgcccacgcg nccgcaagca gngaagaaaa caagaggcna aaaaccccag 60

ggaccccncc aacaccggcg gagccgncac tggaaaaacc ctatcagann gggacatcan 120

cnnggataaa gaaaagganc aacacctatg cacttgagca atttcttgcg ttatcagtga 180

agttctgcaa ctcgattggg ttccggatgg cttgcacaat caccctaag acagcaacga 240

acagcaccag atcatggcag gtgcgtggta ctgcatacaa gtggcatcgc tacatcatcg 300

gagtgggctg gaagagcttt tgccaggata acagactcaa ggcaggcgac ctgtgcaacc 360

ttaacatcat cgagaccacg ctgtggcatg ttactatcac gc 402

<210> 37775

<211> 303
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-H5

<400> 37775

ccggccggaa nccggggcgc ccagcgccga aagncaaang gacacagaga agaagaacac 60

aggaacgagc nncgcccggg accgagaccc gggcgagcaa ngaggcnaaa cacgggacgg 120

gggacggcaa gcccgggagg gcgaggaggg ancnaaagca angccaancg ggggagaacc 180

agcgagccag cagcagcagc cacgcannca cgccaacaag gcaagggaag ggaagnccga 240

acgggcagag gggaccagga aaccgaaaaa aaaaaaaaga aaaaaaaaaa aggaaaaaaa 300

caa 303

<210> 37776
<211> 300
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-H7

<400> 37776

ccggccnccc cgaaanaagc ggaaagggca acccggncca cgggacggag cccccaaacc 60

gaacccnccc gagcacgccc ggcgaagggg ancacgagca ggccggagcc gcgggacagc 120

cngcnggggn accaggagaa caacgcggag gngncgaacg cggcgccggc ggggcaggng 180

cgggcggcgc aggagaaccg ggaccagcag gccgcgcagc agcccggggg cgcgggagcg 240

ggcgcggacg acgacggcgg ggaccggcac gcggcgacgg gccccggccc gggcccgggc 300

<210> 37777
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-H8

<400> 37777

cccacgcgtt cgcccacgcg ttcgcaagca gtgaagaaaa caagaggcta aaaactccag 60

ggacttctcc atcaccttct gatccgtcac tggaaaaacc ctatcagatt gggacatcat 120

cttggataaa gaaaaggatc aacacctatg cacttgagca atttcttgcg ttatcagtga 180

agttctgcaa ctcgattggg ttccggatgg cttgcacaat caccccttaag acagcaacga 240

acagcaccag atcatggcat gtgcgtggga ctgcatacaa agtgcatcgc tacatcatcg 300

gagtgggctg g 311

<210> 37778
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-H9

<400> 37778

aaaaaaaaaa aaaaaaaaaa aaaaatttaa ttaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

ggaaaaaaaa aaaaaataga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa ataataaaaa aaaaaaaaaa aaaatataat aaaaaaaagg 180

ggggactttt taaaagttcc aagtttatac ttcccttatt ttgaaaaatt tatttttttt 240

tttgggtcaa aaaaaatttt tttaactgcc tgttttt 277

<210> 37779
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A1

<400> 37779

cccacgcgtc cggcaccctt tcatcagcct gcctgtccac tgttggcttg gtgacttcct 60

ccgctccgct cccctccgct cccgaacggt cgatctttgc atggcagcag cagctggctc 120

caaggggcgg gcgatcgctg gaagcttcgt cagccgcgtc ctcgccggca aggccgcctc 180

gccgaggagg gccgtgcacg cctcggcgta cgacaagaac ctggaggaac aggtgcgccc 240

ggcgttcgtg ccggacgatg tgatcggcag cgccgggagc cccgacaagt actggagccc 300

ccaccccaag accggcgtgt tcggcccggc ggcggtggac cccaagctgg cagctggtgg 360

cgcg 364

<210> 37780
<211> 214
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-A10

<400> 37780

acggaagaag ccccaagcaa gcgacactct tgtcctcttc gcgccagatc ggtgnttatg 60

agctcgaagg agaagcccac tcttggaggc acgcggatta agacccgcaa gcggaacatt 120

gcagctcctt tggaccctgc atcattctct gatgcaattg ttcagattta tctggataaa 180

ggtggagatc tggaactcgt cgccaaaagt attg 214

<210> 37781
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A12

<400> 37781

aaaaaagtac ttgtatttct tttgttccat ggtgtatgtg gtggtgggcg gctcagccgc 60

gtgagtgcag tattgggcaa accggaggct gcggcaacct tgtgcagttc ggccacgaat 120

atactaggga agatcgcgac caatcaatca atcgatgacc gagttcaatt gttcagcatt 180

ctttattagt tttggtgggt ggatacttca atcggtgagc cgaacagaca gttgttttga 240

gtatgaattg ctctgcatct gcaaagttgt tgtttgtcat ccgtcgtctc aataaggcga 300

agggaagaaa aaaaacgcaa acattaatct atgttaaatt agtgtggcaa aagttgaaac 360

aatttttgcc ttttgacctc taattccaaa aaaaaaaggg gggg 404

<210> 37782
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A2

<400> 37782

caccttcaa ggcagttctt gatgaaagtc cagcactacc tcagacacat gctgcaccag 60

ctggttcttt ccaacccact ggacctggta cggatgtgaa ccctttccag cctgcttcag 120

ccgcaagctt tggttttgga gacactcttg gtgatctcac ttttgcacca aatgctgcac 180

ctgagctgca agatatgttt gcaaacacag cctccttgcc ttcagaggta gcaccagcaa 240

acccatctgt ggttctccaa cagccagttc ctactaattt ctcctctcag gtatctcagc 300

cagttgctgg cacattgcat gctgctccta cagcatttgc tccttctcag gctcctgcca 360

catcatttgc tcattctcag ggg 383

<210> 37783
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A4

<400> 37783

cccacgcgta cgagtcaagt taccgtttca aaggatgttt cttctaggga agcttcaaag 60

gacgtcacat ggatgggagc ttcatggaaa tgccaacgaa gtctgaagca ctacaaatct 120

ttctgccgta caggaattac tatctcggtg catagctttg tatacattat gggtgaagag 180

atgaacagac ttattgctta tgtggaagat ctctatgagg atacaaattc ctgcaacatg 240

gtcaaggtac aatggtttgg caaagctgat gaagttggtg ttctgttgcc catggatttt 300

gatgacaggg agattttctt ttctctggga cggcaagatc tcaatgtaat atgtattgac 360

ggattggctg c 371

<210> 37784
<211> 316
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-A5

<400> 37784

caaagctaaa agtcttgaaa gctattgccc aagagtacaa tattgaatgg gattcatcga 60

atactgaagc agaattcaac aagaaatatg aagatctact ggacggctcg ggatcttcgg 120

tccaccagat ccatacacct atcattgagg gctcagtgag ctcaccagtt gtttctgctc 180

caagagataa gactccagca ttgaattcac ctgtcattga tgccgaagaa caccaagttc 240

gcgaatctcc gacttcacca gctggaggtg caagagctgg tgttgtcact aanggcaatg 300

tggtaaccat gggcca 316

<210> 37785
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A6

<400> 37785

gagaggggaa ggtcagcgtc accagcaacc ccgtcaggac ctcgacctca ccgtcggcga 60

cttctaggag gatgagatcg accccgagct gcgctagtcc ttacagcgaa acagcagggt 120

cctcgccatt tcgggggatt gttaccctgt ccctggaaca cgctgaacac gaagcagctg 180

ccagaggcgg agccccctgc gaacaacgag ctgctcacga cgaagcacgc gagagggggc 240

ggcgcgtagg gagcccccac actggcaact catccttggc ttatgcgaat tggcggacac 300

ccactggttt gggtgatgct gtcggtctgc gccagatgcc ctccactgtc gtcgatgtca 360

gatcactgcc tat 373

<210> 37786
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A7

<400> 37786

ctcattatta ttgcgaaact tgaatagaaa agttttgacc tgtcttacga agcatttata 60

gttattattg aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa taaaaaaaaa aaaaaaaaat gaacataaaa cacaaaaaaa ggggaacctt 180

ctaaaagatg caaagctccg atgcgaacaa tgagatgcta acgatgaagc acacgagaac 240

gtacatgaaa gtaaggagcc cccatactag aaactcatac ttgggaaaac cgaattggca 300

cccaactaaa gcctttggcg ataaattccc tttttaccag atgccctaaa atggaa 356

<210> 37787

<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A8

<400> 37787

cccacgcgtc cggtgtcatc cgcatattgg atgatgggga aattaaagtc ctccccaatc 60

gggaggggag cttgagcatg tcaatgtttt ttccttgtta atgatggatt gcaaaaggta 120

catagcaagg acaaaaagca atggggacag tgggtcacct tgtctaactc ctctttggca 180

gcggagacct ttccgggcac cccattaaga agcacttgag atgttcccga gtccatgatc 240

atatttatcc actaatgcca ttttggtcca aatcctttgt gtgtaaaaat gctcctgatt 300

accggatgct ccatcttgtc aaaagatttc tcgaaatcta gtttgaagat aaccgaccct 360

tttttactgc ttac 374

<210> 37788
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B1

<400> 37788

caccttccct cctcccttct ccaatcatcc ctttctggct ttctcctccc ccctgagacc 60

ccgagtcctg ccggaatccg agatcccgga ggcagcttcc cacgggctcc tctcactacg 120

gtagctggat caaaccatcg tgctctcgtc tcgacagaaa ccccggccga aaacccagcc 180

ctgttcgccg cgcgcgcggt gcccaggccg tgccagatct gcgagatccg cgccgactat 240

caccaggtgg atgctctcgt gatctctcgg aggccgcggg gactgagcag cgtctcggcg 300

gcggcgtggc ctgcatagct gttggcttgc cgagatgcaa cggaacgggg tggtggaatg 360

cagcgtgt 368

<210> 37789
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-H2

<400> 37789

agcgccccgn agngcagngc agngcagcag ngngcnaccn ccncagnccn cncacaccag 60

gacaagcgcc agncagccgc aaaagcgcgg agcgaggcnc agaagcgaag gcgnccaaga 120

ggcngcagcn ggcggcgcag ngcgaggagg cggcggcgcg gcgcgccgag cggacggagg 180

cccacggccn ggaggacggc gcaagcagcg acgcgacgcc ggagaagcag accnncnaca 240

agcccgaggc cgcggcgcac ccggaggccc aggacgcnga gcacaagccc gccgnncacc 300

aggccgcgaa gccggaagcc acggcgagcc cgaccaccac caccggcacc acggcggcgg 360

cggcgggcac 370

<210> 37790
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-F12

<400> 37790

agaggggaag agagagagag agacttttgg gggagatgag ccggagcctg nggagccggg 60

tgaagttgct ccatgaggca gcgggtcacg tggtgacggt ggagctcaag accggcgaag 120

tgtaccgggg gtccatggtc gagtgcgagg ataactggaa ttgccagctc gagaacatta 180

ccttcaccgc caaggatggg aaggtttcgc agctggagca cgtcttcatc agaggaagca 240

gagtgagatt tatgattata cctgatatgc tcaagaacgc tcccatgttc aagcgcttgg 300

aagcgagaat taggggcaaa ggatcagcta ttggagttgg gcgtggacgt gcagttgcaa 360

tgcgtgctcg ggctgcttct ggtcgtggtg gtggtcctgt tgggcgaggc agcgcg 416

<210> 37791
<211> 100
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-F2

<400> 37791

cccacgcggc cgaacagaga aagcnganga nacagannng gngangnnga naggaaaggg 60

ncaggggaaa aaggaacaca gacnacaggc cgaaggaaga 100

<210> 37792
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-F5

<400> 37792

cggacgcgng ggcggacgcg ngggncgacc cacgcggccg cggacgcgng ggcggacgcg 60

ggggcggnca cagaggccga caggaagaac gannngncgc cggagaacgn caagacgncc 120

ggcgnanccc gcgacgggga aaagagnaag gcacgagagc agnngccngg aaaggcgacg 180

caaaaggggc aggangaggc gcngacgnac ncggcccggg aagcgccacc gganccggg 240

agaaggaagg ccaaaggagg gaaaacaaca aagagaccca gcagcagccg gctgcagaag 300

cttggcaaga gccgggttac caaattcgtt cttcaggaaa tactgagcat caccattgaa 360

gaattt 366

<210> 37793
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-F7

<400> 37793

cccacgcgtc cgctctcaga cagcataagc tcacatcggc aataaaaaag catgcccgtg 60

tcccctgatt ctctccgccc agctcagctc agctccccgc cgctcctctc cgcgcccctt 120

catcccggat ctcggcatgg gcaccgccac caccaacggc tcggcggagc aggcgtccgc 180

gcccgtgccg gcgctcaagt tcctcatcta cggccgcacg ggctggatcg gggggctgct 240

gggcggtgtg tgcgcggcgc gc 262

<210> 37794
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-F9

<400> 37794

cagccgccgt catgtcgaag cgaggtaggg gaggttcggc tgggaacaag ttccgcatgt 60

gactgggtct accggtggcg gccacggtga actgcgcgga caacacgggc gccaagaacc 120

tctacatcat ctccgtcaag ggcatcaagg gccgnctcaa ccgccttccg tccgcctgtg 180

tcggcgacat ggtcatggcc accgtaaaga agggaaagcc cgacctcang aagaaagtga 240

tgcccgccgt catcgtccgc cagcgcaagc cgtggcgtcg caaggacggt gtctacatgt 300

acttcgaaga taatgctgga gtgattgtga atcccaaggg tgagatgaaa ggttctgcaa 360

tcact 365

<210> 37795
<211> 99
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-G1

<400> 37795

tcgnccacgc gttcggccac gcgttcgaag agatcatact agcagcaaag aggtaagaaa 60

ccttggcaag ccaatcgatt tagcaagccc gtactacat 99

<210> 37796
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-G10

<400> 37796

gctttagcga tggtcctgtt catggctggc gccgcgctgc tcgccggggc tgccggcggc 60

ggcgcgcagc aaggcgggtg gagcatcatc acccggccca tgttccagag catgctgagc 120

caccgcggcg acagcgggtg ccagggcgcc ttctacacct acgacgcctt catcgaggcc 180

gccagcaagt tccccggctt cggcaccacc ggcgacgagc agacgcgcag gcgggagctc 240

gccgncttct tcggccagac gtcccacgaa accaccggtg gatgggcgac tgctccggat 300

ggaccgtttg cctggggata ctgccgggtg aaggaacaga aacagacgga cccaccctac 360

tatggacgag gacccataca gctaactcat aagtacaact a 401

<210> 37797
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-G11

<400> 37797

cccacgcgtc cgctcacgcg tccgtttacg cgtccggcca cgcgtccgcc cgaagccgag 60

gcatcgaacc accccggggc gagccgcaag caagcagcca agcagtgtga actgaccgtt 120

cgttccgtcc aggccaccat ggaagcgccg ccggtaccgg agctcatgga tctggacgcg 180

ccccccttccg tcgcagccga cgccgcagcc gcggcgccgg ttcccccctgc cgtcagcgac 240

aagaagaaag aaagggaaag gggagacact gttacgggcc acatcatctt caccaccatc 300

ggtgggaaga acggcgagcc gaagcggacc atcagttaca tggcagaacg tgtcgtgggt 360

acgggctcat ttgggatc 378

<210> 37798
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-G12

<400> 37798

gttatgagcg aaataatcca taatgtatcc tacatgcttt attactttga aggaactcgg 60

ggttccagat gcttttatct catcagtgac tgctggggta ataccatctt gtaaagccct 120

tatctgtgtt cctaatggcc tgggtgcaat atgcctcaat aatcaaggac ttgaggctgt 180

cagggaaact tcagcactgc gatttcttgt agataccttc actagcatga aatacttgat 240

accaatgaat gagggtgtgg tccttctagc taatgcagtg gaagagcttc ttcgtcatgt 300

gcaatccctg agaagtattg atgttgacat cattattgaa ataatcaata gactaagttc 360

gtc 363

<210> 37799
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-G3

<400> 37799

gactagntct agacgagatt agttgaattt acatgcatat gtttccatct taagaagctg 60

tccgcgacag aagtctacaa tgatgcctcc atggtcgtcg ccggcggtca agccaagtag 120

gggatgcagg aggaggggtc ccgcggcgag gatgagtgga tcaagtgggc tagaggcaag 180

acttggccat cccttggctc atggtcgcgg ggttgggcgc tctagtgtgg cgcgagctcc 240

gtggttctac tgtgggccac accagcgtgg gagctctaac gcgtggtgga gttgcctctg 300

ttgggtgggc gtggtgtgat gttaagaagg tggcagccgg cggcccgtat cggggcggtt 360

ggtgg 365

<210> 37800
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-G4

<400> 37800

caagaaaact agaaaaggct cctcccgacc gcaacgcccc tcatctccct cgaccccggg 60

atccccgacc cgatggcgcc caaggcggag aagaagccag cggagaagaa gccggcggcc 120

gaggagaagg cggagaagac gaccgcaggg aagaagccca aggccgagaa gcggctgccc 180

gcgtccaagt cctccggcaa ggagggcggc gagaagaagg ggaagaagaa ggccaagaag 240

agcgtggaga cctacaagat ctacatcttc aaggtgctga agcaggtgca ccccgacatc 300

ggcatatcct ccaaggccat gtccatcatg aactccttca tcaacgacat ctttgagaag 360

ctggccgg 368

<210> 37801
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-G5

<400> 37801

tccaattcag tatactctaa tgaaagatcc tgtgacactg ccatcgtcaa aggtcacagg 60

ggaccggccc gtaattatca ggcatctgct gagtgattct acagatccat ttaaccgctc 120

ccacctcact caagacatgc tgataccaaa cacggagctc aagttgcaga tcgaggagtt 180

tgtccggtcc cagcagtcga gaaagcgaac tgctgcggcg ttgctggaga ttggcgaagc 240

ggagggtact gatgatatgg ccgaatgaat tgtgccagga gcaagggatg gacacatttt 300

ttttgtgggg aaagagtgat ggttaattca catgaagtgt atcggtccat ctgtccgtat 360

aaagtt 366

<210> 37802
<211> 347
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-G7

<400> 37802

ccgagangnn caggaggagc aacagnggga tcagcctcaa gttcgatagc cctagccccg 60

gcggtggtgc tgctggcacc atgtcttctg cgagatcatt catgtcgtcg ttgagtatag 120

acaggagcat ggcgagcttg gatgggaagc ggccgttcca tttggtaggc accccggtgg 180

cgagcgaccc agcagatgcg caccgtgcgc ccaaacggcg atgcacgggt agaggggagg 240

atggaagagg caagtgtgcc actactggca gatgccattg ctcaaagaga atgaaactgc 300

ggattaagag gtccattaga gtgccagcca ttagcaacaa aatcgct 347

<210> 37803
<211> 320
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-G8

<400> 37803

ngcgccggng cggcggaggg agaagagngg cggcggcggg ccggcggcga gnacaggcga 60

gggcccgagc agaggccccg gcaaacgcgc agcgcacaca aacacacacc agcccagcac 120

cgagagaaca gccggcggcc ggcgagaaga gccgcggcac gggcgcgggg aaggaccggc 180

acaacaccag gancgccccc gagggacgcc ngnaccaagg cgaggacgcg nncaaggcgg 240

agaagacagc cggaggcacg gcgaacggcg nccgcggcgc ggacaccgac agcggcgaca 300

cccagaagaa agccccggac 320

<210> 37804
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-G9

<400> 37804

atgacgtctc gcccaatgaa ggggatgctg actggcccag tcacaatcct caactggtcc 60

gtcgtccgga atgaccagcc gaggtttgag acttgctacc agatcgctct tgcgatcaag 120

aaggaagtcg aggatcttga ggctggtggt attcaggtta tccaaatcga cgaggctgca 180

ctgagagaag ggctgccgct ccgcaaggct gagcatgcat tctacttgga ctggggctgt 240

ccactcttca gaattaccaa ctgcgagatc caggacacca cccagatcca cacccacatg 300

tgctactcca acttcaacga catcatccac tcgatcatcg acatg 345

<210> 37805
<211> 179
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-H1

<400> 37805

gcaagaagaa cgacgncgcc cgcggcacng cacaacggcn cagncgaggc acccaangcg 60

gaccggcacc agngagaaga ggcggcaaan angggccggc nccggcacgg cccgggggggg 120

acnacgagca caggcgcanc gngannaaca agcncggcgg gagggcgcca gcaagcaac 179

<210> 37806
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-H10

<400> 37806

cccacgcgtc cgcccacgcg tccgttcacg cgtccgagac gggcctgggc gtcggcgtcg 60

gcatctcgct cttcaaggtc ctgctgcagg tcacccgccc caacgtcgtg gtggagggcc 120

tcgtcccggg gacgcagagc taccgcagcg tggcgcagta ccgcgaggcc gtccgcgtgc 180

cgggcttcct cgtcgtcggc gtcgagtccg ccgtctactt cgccaactcc atgtacctgg 240

tggagcgggt catgcgctac ctccgcgacg aggaggagcg cgcgctcaag tccaaccacc 300

cctccatccg atgcgtcgtc ctcgacatgg gcgccgtcgc ggcgatcgac acgagcggtc 360

tagacgcgct gtccgagctc aagaaagtcc tggacaaaag aaacatcgag ctggtgcttg 420

ccaaccccgt ggggtc 436

<210> 37807
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-H11

<400> 37807

agcgcagcca tctcctgacc gcacattagc caccccacgt cttgctcacc gtcgggcaga 60

ggagccgtgc cgcgctcacc atcgctcatg tccaaaccat cggcgtcccg gccatgtatc 120

aagattgcaa tccgtttccg agcttcgagg aatcgaagat caagagttgg cgaccaagtg 180

atctggttct tcgagttcta tgaggctgga gatcctgagc atctgtttgg tgaaggttgc 240

ctttggtgca atctatgctc aagtaaagaa gaaggcgttg aggcggatct ctaagagttc 300

caggactttt gacgagttcg aggattaggc tagcgaccac ccncactcag ctgcctgtgg 360

tgggtttatt tacgttggct acgtttctat tct 393

<210> 37808
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-F11

<400> 37808

cggacgcgtg ggcacgcact gctagttagc gagcttagct actgatcgtc gacaagcacg 60

gtctaactcg atctctggaa gcggctagct gctaacagcc aattaatggc gaagccttcg 120

caggtgctgg tgtcggcgct cgccgcctgg gcggtggtcc tgctgctgct gtgcgccgac 180

gagccagggg gcgccgacgc ggccacggcg tgcgacgccg cgcagctgac cccgtgcgct 240

gacgccatca tcgggagctt cgccgccacc gcggcgtgct gcagcatgct cagggagcag 300

cagccgtgcc tgtgcacgta cgcgcgcgac cccaagctgc agcgctacgt cagc 354

<210> 37809
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-H12

<400> 37809

cggacgcgtg gggccgcggt ccatttcgtc tgaagaccct cctcctacct aatgagttgg 60

ctctgtcgtg acgtgaaatg ccagcgcgca gcttcttgat ccgttccggc tgatcccgtg 120

gaccggactt ggggttgggg gaggccctct gtctccatgg atgaggcagc agggctgctg 180

ttgcaagaag agggtggagg tggggaccaa gaagctctcc tccttccact tccacaggat 240

gttggccttt acacaggtga tggatctgtt gatgtcaaag ggcgccctgc gttaaagggc 300

actacaggca attggaaagc atgctntttc atcctaggga atgaatgttg tgaaaggctg 360

gcctactacg gaatngcant aaacctagtt acttatttga aagtgaagct tcat 414

<210> 37810
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-D2

<400> 37810

cccacgcgtc cgcacagccg ccgccgccgt cgccaccgcc gcacggggcc gcccggcgcg 60

gcgggggagg tggaggggg tggtactggc gcgcagtcgc gttcccgctc gtcgtcgcgc 120

tcggctgcct cctgtccttc gccttcatcc tcgccgtcgt ttccgcgctc taggcaagcg 180

gaagcaagtg cttcttcgtt caggccacat gcattttcac gcctcaacaa tatttacctt 240

tgctgttagt ggttcatccg gtattctgtt tcgtactgaa ctccttcgtg tcatgatatc 300

attgcactgc aaggaaaaaa taa 323

<210> 37811
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-D4

<400> 37811

cccacgcgtc cgtatatatg tacgtaaaga tagacaggca taagacgacg tctctaccta 60

gctagctata gctgctgaat acatacatat acttgtcgat cgagacgtcg cttgtgacgt 120

ccgtccagtg catgtataat ccaacaacag atcgatcgaa gatgattcat aatgcactgg 180

acggacgcta gttctagatc gc 202

<210> 37812
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-D5

<400> 37812

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggaag 60

gg 62

<210> 37813
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-D7

<400> 37813

gtttggatca aagcttaaag agcacatgca gtactgtgtg gaccaccctg aggaggttag 60

caagcttgcc aaggtgaagg cccaagtctc cgaagtcaaa ggagttatga tggaaaacat 120

tgagaaggtt cttgaccgtg gcgagaagat tgaactgctt gtcgacaaaa ctgaaaatct 180

gcgttctcag gcacaagatt tcaggcagca gggcaccaag gtgcggcgga agatgtggct 240

ccaaaacatg aaaatcaagc tgatcgtcct gggcatcatc atcgcgctca tcctcatcat 300

catcctgtcg gtgtgccatg gcttcaagtg cggcagcaag tgaagaaggg gacttacaga 360

tggccgtgcc ctgccctgcc cttgcctggc acctgcgaga aggaagagac ttcatgtgga 420

ggtttttttt tttg 434

<210> 37814
<211> 349
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-D8

<400> 37814

cggacgcgnn gggaccnggc gnacaggagg acgacccaac ccaagcggca cacaggaagg 60

aagaggangc cgccgccgcc gccgagcggg ccgcnggcgc agccgcagga cccgaaccac 120

gcggcggcgc aggagggccg gnaccgcaac agccaggccg gggacgccga cgcggccacg 180

gcggcggagg cccggggccg gcacgcgccg gggcacgagg ccgagaccgc cgagcacgac 240

gaccggcacc cggcgcagga gcacgaggcc gcgaccaccg acgggccgga ccacgnggac 300

cnccaggccg gccgacgacg cgggcacgcc gacaccaacg ccggcgcgg 349

<210> 37815
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-D9

<400> 37815

agcccaccga attccctgcg attcctctcc cctcgcctcc tcgtctcccc ctaggggatc 60

gtcggagagg aatcgcaaag agggccgtct catccgagtt aaggaagcca tggagcacaa 120

ggaggctggg tgccaggccc ccgagggacc catcctctgc atcaataact gtggcttctt 180

cggcagcgcg gcgaccatga acatgtgctc taagtgccac aaggagatga taacgaagca 240

ggatcaggcc aagctggctg cctcctctat cgacagcatc gtgaacggca gcgacgccgt 300

catggagccg gttgttgctg gcagcaacac ggtagtagct gttgcccaag tcgagttgca 360

aacaatgaac gtgcagcagc ccgctgatg 389

<210> 37816
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E1

<400> 37816

gcaggccaac ccacccccac cccctgcact gcacacacaa tccccccatg gcctctgctg 60

gagctgctgc tatataagcg cgacccggac ggctctgctt ccccagtagt cctctcctcc 120

catccatgct tcggtccacg cacccaccca gccccaccag cggcagctcc gcggcgccgg 180

cgtccaactc cgacgccgcg gcgatggtcg ggggcggcgc ggcggcgggc agcggcggcg 240

caccgagcgg cgccaagctg ctgcagatcc tcaacgtgcg ggtcgtgggc agcggcgacc 300

gcgtggtggt gctgtcccac gggttcggca cggaccagtc ggcgtggaac cgcgtgcttc 360

cctacctt 368

<210> 37817
<211> 153
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E10

<400> 37817

cgggaattag gactatgctg gaggttaagt ggaaattaga actatgttgt tcttttggtg 60

tgtaataatg gctttgctat gtcgaaatac tgggtttgtt atgaaatatt gggtttgtta 120

tgaccaacac ggatgctcgg tttgtttgtt ttg 153

<210> 37818
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-E11

<400> 37818

gtggtgttgg gattgatgat tggtgtttga atgagcagtt ctgggtcatt ggaggtgtgg 60

cctcgcacct cttcgctgtg tttcagggac ttctcaaggt catagctggt gttgatacaa 120

gcttcaccgt gacatcaaag ggtggagatg atgacgaatt ctcagagctg tacacattta 180

aatggactac cttattgata cctnctacca ctttgctcct attgaacttc attggtgtgg 240

tcgctggtgt ttccaatgca atcaataatg gatacgagtc atggggcccc ctcttcggga 300

agctcttctt tgcattttgg gtgattgtcc atctgtatcc cttcctcaaa ggtttggttg 360

ggaagcaaaa caagacaccg ac 382

<210> 37819
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E2

<400> 37819

ataaaatcca aatttctccc agcgaaggca cacagccgcc gccatttctt catcctcccg 60

tctcctgatc tccatctgcc tcgcagcgcc ggcgatccat cttccgctgc ctcccttcct 120

cgcgctcggg ctctcagtga cggcatcagc ggtttcccct gccgcctatc gccagtcgca 180

tcacgccctc gcctccggtc caccgcacac cggccggtca ccctgcatta cttgctaatc 240

tttcctgagg gcagatggcc ggtgcttttg caaatgtcaa cgctgaggca gggctgaaaa 300

agcttgatga gtaccttctc actcgcagct acatcactgg ctaccaagct ttcaaggatg 360

acctggctgt ctactcttca tttttggttg atccctcatt caagtatatc aatgtag 417

<210> 37820
<211> 360
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-E3

<400> 37820

cacctcccca cacgggcaca cctgccctcc ccgncgccgc ggacccactc ccatggcaaa 60

gctccggcgt ctaccctgct cgtttgccgt tctcgcgctc atgtgcatca tcccgctcac 120

agcgccgcgg cctgcactgt cctcgcgcgc ggccccaagg gacggtgtct ccttcgccgg 180

cgcaagcaac acgatacatc aacttcttaa agatcacggc cttcccggag gactgctccc 240

gcgcggcgtg gagtcgtaca ccctggacga gtcgaccggc ctgctggaag cgcggctgtc 300

ggcgccgtgc tacgccacgt acgacaacgg cgaactggcc tacttcgaca acgtggtgcg 360

<210> 37821
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E4

<400> 37821

gatgtatgac gtcgttgtcc actttgtttc tgggtggcgt caagatggga ccggccgtgg 60

tatgtgactg tggtaagtat gcgactaagg agctgtagtg tgttcttcca accacatgca 120

ctagcactgt gggtttgctt tgggcagctg caagatttgg aaatttatga atgcgatgat 180

cttgtctact ggccggagaa agtattccaa agcttgattt ccttgcggag gctagagatt 240

tacagttgca agaacctaat tggatacgca gcggcggtgg cgaatggtcc tgaccaggaa 300

gcaatgagcc agttgctttt gccccatcta gagtctctaa agatattggg gtgtgaa 357

<210> 37822
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E5

<400> 37822

cggacgcgtg ggccgtgaac ggcaacttga ctgcagggtt ggagtcctac aagcacaaag 60

ccgcaaaagc tgccatggat tatggctttc acatggccat tacaaagtgg aatgatgagg 120

ttgcaaggga aatggaagtg atggttaaag aacatgggat aaattctttc aagtttttca 180

tggcatataa aggctccttg atggtcactg atgacctcct cctgcaaggc ctacggaaat 240

gcaagtcgct tggtgccctt gctatggttc atgcagagaa tggtgatgct gttgccgagg 300

gacaacagcg gatgattgac cttgggataa ctggtccaga agggcatgct ctctc 355

<210> 37823

<211> 199
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-E7

<400> 37823

ccccgaggaa gacgcggagc acggcngcag cngcngcngc aaggaagcgg gcaacggagc 60

cngctccggc gaaggcagng ccggccaaga aggaagacga ggcagcggnn gccgagnnga 120

aagggaggaa gaggggcaag aaggaagccg aggcggagac ggcggccacc gagccgaaag 180

ggaggaagag ggacaagaa 199

<210> 37824
<211> 207
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-E8

<400> 37824

cggacgcgng ggcagcaggg aagcanggca aagggccaac annnaanacc ngggaacggc 60

cacnnnnggg ngccaggngg gacaangggn nnacanacna ngaagnaaac cgcaggcnga 120

anaaggcaac gcaganggcn gcnggcanaa gagancganc aaancagncn gacangaggg 180

cagacaggaa ggcannnaac cganggg 207

<210> 37825
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E9

<400> 37825

atagatttgg ttttactcaa gggccttcta cgggagcacg agtaccagat ctatcgtgtg 60

aaatatccgt gttcgtgaca atttcacact ctcctaacat ggtatcactt gtttgaagta 120

catctaatta ttcactcttg tttgaagtac ttcatttctt tttattcggc atcttagatt 180

ctgggtgatt ttggttttta tagggcagac ctggtgcagt agtgagagct gtttcaccaa 240

gtcaccaagt catgggttcg aagtaacctc ttcacatttt cgtgggaaaa gcttgccttg 300

gtttatccct ttccgagacc ccactcatgt gggagcctcc gacattgtgt ctacccttt 360

tataagccta cactcgtttc aaagcatgca tatactgctt tc 402

<210> 37826
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-D12

<400> 37826

tccccgtatt gttggtgaag gccttgtgat tgacgaatgg aaggaacgaa gagagaggtg 60

ccttgctcgc cagcagattg aaggtgttga ttcggtgtag acacgaggca gccctgtaaa 120

ctatgcagaa tgaacatacc gttttatggg cacgcactcc agctgtcaaa tggatttgga 180

gcttgatttt gcgaaggttc ggatttggag caatcaagca acaatgaggc ttttgtgtat 240

ttggggttca cgctgaactt ctgtcctggg tttgggtgtg tgtagataag cagccactgc 300

ttggtaatag tacgtccttc agccatgtac tcgtgttgnt gaatgtgggt ctctatgtga 360

atgtgatgca ttctctagct gctgtcctgt caacattaaa ag 402

<210> 37827
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-F1

<400> 37827

gagaacattg agaaggatat tgagagggaa aggcggagaa aggacaaccc tgaggcgatg 60

gangaagatg aagtggatga gatcgccgag atcagggccc ctcacttcga ggagtcgatg 120

aagtatgctc ggcgtagtgt cagtgatgct gatatccgca agtaccaggc gtttgcccag 180

actttgcagc agtcccgggg gtttggcagt gagttccgct tctcggatca gacggcgaca 240

gctggtgctg ctgctgcagc cgatccgttt gcttctgcgg gtgctgcggc tgatgacgac 300

catctataca gctagttggg ttgctcaata tcagtcccgt cactcatctg tttaaaactg 360

atcattctta acacgcatgt tatgcaat 388

<210> 37828
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-B5

<400> 37828

ctagaacgcg agcggccgcc ctgggnngaa ggcgacgagg agaactacgg ctacagcgac 60

gnggaagagg agaagggatc nccgaaggcc tcgccggagg ctagcgagga ggagagcaag 120

gatgcgtcgg agtcagaatc cggtgagtct gatagcctct ccgagtccag cggatcggaa 180

gcttctatga ggaagaagaa agggaggaat aaaagtcgcc gtagtagcaa gcgcagccgg 240

cagcgccacc gtcaccgctc atacagttcg gagattgagg acgaaagcaa gagcgacgat 300

gattctgtgg gctcttatga ttcggaggag tctagggata ggagcaaaaa gaagtcgcgc 360

aggcataata gatctaagaa g 381

<210> 37829
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-B6

<400> 37829

cccacgcgtc cgnacacata atatttctgc tgtttgtttc catcctgagc tccctataat 60

cattactgga tctgaagatg gtacagttcg tatatggcat tcgacaactt acagacttga 120

gaacacacta aactatggcc ttgagagagt ctgggctgtt ggatacatga aggggtctag 180

aaggatggtg attggttatg atgaggggac cattatgata aaaatgggcc gtgaagtacc 240

catagcaagt atggataccg gtgggaaaat catttgggcg aaacataatg aaatacaaac 300

tgtaaatatc aagacagtcg gtgcaagttt tgaagccaca gatggagaaa gattaccctt 360

ggctgtaaaa gagttaggaa gctgtgattt gtacccacag agcttggagc ataaccctaa 420

tgga 424

<210> 37830
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-B7

<400> 37830

cggacgcgng ggngctccca acacgccagc gngctatcca gnatgctagg ncgggatata 60

atcctgtcgt gtccctggga tggttatatc cccccagctt agtttcagaa ctacagcata 120

ctccgtacag gttatgctga cctgttccca cacaatgtgc tgtacagttg gtggggctat 180

gttgtgatta ctactccgaa tggtgttctg gatcatgagg aagcaatcag gcagaacgtg 240

ggtgggcaag tccttggtta tatccattga ctgacaagta acgtcgctct tagtcctgaa 300

tgaggcaacg ggttgtgccc atttggtatt actgtactgn tgttattacc gaacccattc 360

tggatgcatc ttgggagctg ttttgtagtc ggtcatggcc atgcaagaaa ggaaataaca 420

tgcca 425

<210> 37831
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-B8

<400> 37831

ctcttcctct gctcttctct gcctgcctga gctcaccgca cctcgcctcc tcagcgcgtg 60

gcctccgtta atccggtaga aaatggccga tgccgaggat atccagcccc tcgtctgcga 120

caacggaact ggcatggtca aggctgggtt cgccggcgac gacgccccga gggccgtctt 180

ccccagcatc gtggggcgcc cgcgccacac tggtgtcatg gtcgggatgg ggcagaagga 240

cgcctacgtc ggtgacgtgg cgcagtccaa gaggggtatc ctgaccctca agtaccccat 300

cgagcacggg atcgtcagca actgtgacga catggagaag atctggcatc acaccttcta 360

caacga 366

<210> 37832
<211> 405

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-B9

<400> 37832

cccacgcgtc cgcccacgcg tccgttgacg cgtggggcga aggcgaccct ccctggttcg 60

ctccttccgc gccgcctgcc ggccgtcgcc gccatggtga agtactcgca ggagccgggc 120

aaccctacca agtcggctaa ggccatgggc agggatctga gggtccactt caagaacaca 180

agggagacag cctttgcgct tcgcaagttg tctttgacca aggctaagcg ataccttgag 240

gatgttattg ctcacaagca ggcaattccc ttccggagat actgtggggg tgttggtcgc 300

accgcgcaag ctaagtcgcg ccactccaat gggcagggcc gctggcccgt taaatcagcc 360

aggttcatcc tggatttgct gaagaatgct gagagtaacg ctgat 405

<210> 37833
<211> 183
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-C1

<400> 37833

gaccgaccat ggccaccggg gccgacaacc gcgacggcat gggctaccag acccgcgncg 60

ggctccgact cgccgacgcg ctctccttcc cacccccatt ccccgccagc aacttcgact 120

tctacccgct ctccctccac gtcgcgctca gacttcttgc cagcggcgcg ggtggcgcca 180

ctc 183

<210> 37834
<211> 294
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-C10

<400> 37834

gaagaaagga atccctccta cgcggtagcg aagagattcg tcgcctcagc cgcctgtctg 60

ctcagatctg cggcggagcc tcgccggcgg cctgcgcccg cggcgccgcc gatccaagat 120

gccttcgtgc gtgcagggct gctgctgctg ctcgtccctg cgccttctcc cccgcgacga 180

cgcgctctcg tccccctccg gctgcgcgca ccgnctgaag ccttggtctt ggcgtgccca 240

atcccccacc tcgtcctnct aacgcttggt ccccgccgct ccccaccctg atct 294

<210> 37835
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C11

<400> 37835

cccacgcgtc cgtccacgcg tccgtttacg cgtccggttt tgttcacgga caaaagcgga 60

ggaacttcat tacttaggaa aaatttaacc gaacttaacc actggaatta ccttccaaac 120

attacggccg ggaccatgtg ccacaaggtc aattcatggt caagcttaag ggccccaagt 180

gtgccttaaa agcagagacc aaaccaagct tggacaccaa ccttcacttt tcttacggtt 240

ttttaaaacg gaccagggca aaccaatggt tccaaaacat ttgggcaaaa acttgacc 298

<210> 37836
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C12

<400> 37836

cccacgcgtc cgcccacgcg tccgttcacg cgtccgccca cgcgtccgct cgtagagaga 60

gggaaaaata tccccagacc ctagctcccg atctcgatgg cgaaccctcg cgtcttcttc 120

gacatgaccg tcggcggcgc cccggcgggc cggatcgtga tggagctgta cgccaacgag 180

gtgcccaaga ccgcggagaa cttccgcgcg ctgtgcacgg gcgaaaaggg cgtgggcaag 240

tccgggaagc cgctccacta caagggctcc accttccacc gcgtcatccc cgagttcatg 300

tg 302

<210> 37837
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C2

<400> 37837

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgcc cacgcgtccg 60

gaccaccatc cacgcactgc tagtaagcga gcttagctac tgatcgtcgt caagcactct 120

cgagctcgat ctctcgaagc ggctagctgc tagcagccaa ttaatggcga agccttcgca 180

ggtgctggtg tcggcgctcg ccgcctgggc ggtggtcctg ctgctgctgt gcgccgccgc 240

gccgcggggc gccgacgcgg ccacggcgtg cgacgccgcg cagctgaccc cgtgcgcggg 300

cgccatcatc gggagctcgt cgaccaccgc ggcgtgctgc aacaagctca gggagcagca 360

gccgtgcctg tgcacgtacg cgcgc 385

<210> 37838
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C3

<400> 37838

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcacg ttttcgtcgt ccggccggcc 60

ggcgagcatt ttgcttctgc gatcgatcgg cgcgacgtgc acggccatgg agatgatcga 120

cgcagagctg cgtctgggtc cgcccggcag caacaacaga gacgtcatca acgtcgtgca 180

gccggcgttg gcggcggcga aacggccgtc gtcgtcggtg ctggagagcg aggcgtccgg 240

gacggacgac catgaccatg acgacgccgc accgaccttc aaggtgcatg tggtggggtg 300

gccgccggtg agagtgtacc ggaagaacgc gtttcacgcg gcggcggaag cgaggaagac 360

caagcggggc g 371

<210> 37839
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-C5

<400> 37839

cgagngcccc gganggggag acagccannn ngngaatcng gggtagatgt acaagatngg 60

gtcattcatc tcatgacaat atgctcgccg catctctgtc gggtagttta agcccagttg 120

gatggttggt tgtggttagc gttacattga tcaattcttt gaagcagcat ccaagacgac 180

cagctctagt ttcagaaaaa agagggcctt ccgattccat aaccagggtg gtccaagatc 240

cagaattggt tcttggtggt taaaaaaggt accattttaa atatatgtaa aggttgtcac 300

tgaattaact gcttggtgat gttgtaagtt gcaacaatcc gtgaagattc aatgcatgaa 360

ttttcttatt gcaaaaaaaa aaatttttg gttgtggtta tttttattaa aaaaaaaagg 420

ggcgg 425

<210> 37840
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C6

<400> 37840

cgatcacacg cagacacgct tccgcggcgc caccaccttc cgccctccgc tgcccgctcg 60

cctccgcgcc cgaaaggcaa agcctcctcg ctcctgcccc gccccctcct cgcggcgtcg 120

gtcaaaccct agcacaccgt acgcgcaggc ccgcccgctc ccattcccca cctccaccca 180

tggcggcgct ctccgcgccc ctccgcgccg tcgccgccgg atcccgcgtc gccgcgtccg 240

accccgtcaa ggtctcgtgc gtgaggagca ctggctcagc tcacttcggc tgcgccttcc 300

cctacatcag ggcctcctct tcggctgcga ggaacctcga gccgctgagg gcgatagcca 360

cgcaggcgcc ccctgccatg ccacaatatt cgagtgggga gaagacaaag attggcatca 420

acgggttttg ggc 433

<210> 37841
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C7

<400> 37841

cccacgcgtc cgcagacgga cgcacacaaa agcgaaaggg aggagagaga ggggcagggg 60

agagcaggag agagaaattc gatagggttc ccatgcccct ttcccaccgg ccaccacttg 120

ccaagcgaaa gcgggagtga aggaggggag agtcccattt ccccaagccc tacacgagag 180

aaagagagag agggggggagc agaggagcac gctacgagag agggaggtcg agggagacag 240

cagaagctgc agcataagcc agaagcatta gaagcggcag ttgtaaccaa gtggcatcag 300

aagatagagc cagccatccg tctatccatc tatctagctt tacaggtata aatcctcgcg 360

cctcggtaag gggccaaggg 380

<210> 37842
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C9

<400> 37842

cggacgcgtg ggcggacgcg tggggttgga tccgcttcgt cggcgtcggc gtggaggcgg 60

acgcggagcg gctcagcgac gaccacggtc tggtggtggc caacgcggag gacctgcggg 120

gccgcgccgc ggagcggatg aaccgcccgg acctccgcca ggcggggctg cgtgcgctcg 180

tgcaagtcgt catgggcgtc aacctcgtga agccgcagag ggtcaccatg agccgctggg 240

acgcgtcctg cctcagctac gagcagatca agtacgcctg catcgacgcc ttcgtctctt 300

tcgaggtcgc ccgcaggctg cttggcggcg cgtactgatc gacgcggtga ggtgctgtgt 360

tgtttaatcc ttactctatc ctgtcttagt ttgttgtact ttgccgtgga ctcccgttgc 420

ttaatcctta g 431

<210> 37843
<211> 303
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-D10

<400> 37843

cccacgcgtn cgtccacgcg tncgactgcg cgggcatcgg ccccggtgtc tacgacatcc 60

actcccccag gatcccgtcg gctgaagaga tcgccgaccg catcgacaag atgctggcgg 120

tgctggacac caacatcctc tgggtgaacc ccgactgcgg cctcaagacc cgcaagtaca 180

cggaggtcaa agcccgcctg accaacatgg tctccgccgc taagctcatc cgcacccagc 240

tcgccagcgc caagtgagca ccttttttt gccttttcg tttccgagga gggcgtcgtc 300

gat 303

<210> 37844
<211> 362
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-B4

<400> 37844

cggacgcgng ggnccccanc cgcaccgctc tccatctccc tgctcctccg cctccttctt 60

gatccagcca agccagggat cgccatgtcg gactcggagg agcaccactt cgaatcgaag 120

gccgacgccg gagcgtccaa gacctacccg cagcaggctg gcaccgtccg taagaacggc 180

ttcatcgtca tcaagaaccg cccctgcaag gttgtggagg tttctacctc aaagactggt 240

aagcatggcc atgccaaatg ccactttgtt gccatagaca tattcaacgg gaaaaagctc 300

gaagatattg tgccttcgta acacaactgg gatattccgc atgtgaaccg tactgagtac 360

ca 362

<210> 37845
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H8

<400> 37845

ccttcagtct ctgggcacca aaatttccgt ttcgattgcc gccgcttttg ccaaggtcag 60

ggttccgggc cttgttctcg ggttttgcct tcggcccgcc aaaggccccc gccggccccc 120

caaaggccga cccatccccc aacctttcg cttccggtta aagcaggcgt cccccaagtg 180

aaggccttta aaaaagcctt tgcggagttt ggggaagttt tgcttgctca agttgtgacc 240

gatcgtgtca gtgggttttc taaggga 267

<210> 37846

<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H9

<400> 37846

gcagcagcag gtagcagcca ccagtccact ttcaccccac tccggcagtg cgccgcgcag 60

ggagctgctg cctgctgtct gactgtcacc gctgccgccg ccacgcccac gcctcatcaa 120

gcgaggcaat ggcgtcgcgg ctcctgccgt tggtcgcggc gctgctccta ctcctcctcc 180

tgacggcggc gtcgtccgag gcgacgctgc acccggtgga ctacctggcg ctgcaggcgg 240

tgcggcgggc gctgtcggac ctgccgggct cccgcttctt cgcgtcgtgg gacttcacgg 300

gcgacccctg ctcgctcgcg ggcgtgtcgt gcacggacga ccgcgcccgc ctggagacgc 360

tgtgcgctgg ggacccgcgc gcgggcgcac cgggccttcg gg 402

<210> 37847
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-A1

<400> 37847

nccacgcgtc cgnccacgcg tnncgccacg cgtncgcaga tttgacagat aaagatcagg 60

gggtgtattc caccttgccc gccgagttac aagcattggt tacaaggttc caatctgtgt 120

ttgctcttcc tgttggcctt ccacctgtcc gtgattggga tcaccatatc tctcttctac 180

ctggtgctca accatttcat gtgagaccat acagatatgc acccgcgttg aagactgaaa 240

tcgagcgcca agtccaagag atgttatctt caagcattat tcaacacagc aacagtgagt 300

tc 302

<210> 37848
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-A11

<400> 37848

gccagcggcg tccgtggagt caccttctac ccaacgattt tccaaaaggc catttgagtc 60

gtccagcgca tatgatgagc agttcaagca gctcatttcg gcaggaaagg atgcggagag 120

cgcttactgg gaactcgtta taaaggatat ccaagatgcg tgcaaacttt ttgagcccat 180

ctacgacgag actgatgggg ctgatgggta tgtctccgta gaggtgtctc ctaggttggc 240

aaatgacact caaggaactg ttgaagcggc aaagtggtta cacaaagtgg tcaaccgccc 300

caatgtctac ataaagatcc cagctactgc agaatgtgtt ccttccatcc aggaagttat 360

cgctaatggc attagcgtca acgtcacgct tatnntctca attgcgagat atgaggctgt 420

gattgatgct tacctcga 438

<210> 37849
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-A12

<400> 37849

cccacgcgtc cgcgcaatat aaacgttcac agcgcttacc ttcatgtgct tggggactcc 60

atccagagca tcggggtgat gatcggcggg gctatcatct ggtacaagcc cgagtggaaa 120

atcatcgatc tgatctgcac cctcatcttc tcggtggtcg tgctgttcac cacgatcagg 180

atgctgcgca acatcctcga ggtcctgatg gagagcacgc cccgtgagat cgacgccacc 240

aggctggaga gggggctctg cgagatggaa ggcgtggttg ccgtccacga gctgcatatc 300

tgggccatca cagtggggaa agtgctactg gcttgccatg tgacggtcgc caaggaagcc 360

gacgcagacg agatccttga caaggtgatt gggtacatca aga 403

<210> 37850
<211> 318
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-A3

<400> 37850

gagccatcng actctccgct ggncgctcac tcnggcagcn ccaccctnca ctcagnncga 60

ggcncgtatt agctctaggc tctagctagc cgcgccactc cttcgtgtag ccatcagcct 120

tctcatcgcc accaatggcc actgccgagg tccagacccc gaccgtcgtg gcggccgagg 180

aagcgcccgt ggtggagacc ccggcgtcgg ccgtcgtgcc cgaggagtct gcccccgccg 240

aggccgaggc cgaagccgag gctgctgctc ctgctgatcc cgaggagctt cccgcggccg 300

agcagcaggc agccggcg 318

<210> 37851
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-A4

<400> 37851

cccacgcgtc cgagaactga tgctcttgat gctgctggca acacaactgc tgctattggg 60

aaggggtttg ccattggttc agctgctctt gtgtccctgg cgctttttgg tgcctttgtc 120

agcagagctg gagtgaaggt cgtcgacgtc ctctccccca aggttttcat tggtttgatt 180

gttggagcca tgctttccta ctggttctct gccatgacca tgaagagtgt tggaagcgcc 240

gccctgaaga tggtggagga ggtccgcaag cagttcaaca ccattcctgg gttgatggaa 300

ggaacagcca agcccgacta ctcaacctgt gtgaagatct tcactgatgc 350

<210> 37852
<211> 204
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-A5

<400> 37852

gcgaccaggg gaccccgcgg cggcgcccga gcgcnccgag ccgcggcgca gcaccaggcc 60

cncgcccccg cgacggcggc ggcggcggca gaaggccagg agcgggacgc gcagaagaag 120

cagcccgacg accagaacgc ccgcgacgcc gcgcgccacn ccgccgagga gaggcagcgc 180

caacaacagc gcggagccaa cgcc 204

<210> 37853

<211> 321
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-A6

<400> 37853

aagggannca ccaaagaggg ggngaagaac aagaagnacc nngcagnngc ngggccagag 60

gagggngccc agacccggcn ggnncaggcc anngaggcnn nnggngggaa gngcaacccn 120

gaggcgccga aggaggnncc cgnngnccnc aaagcccnca acgaaggaga nanccnggac 180

gaggaaacca nngnggacng gnacaangan gcngncgcag cngggaagga cncccaggnn 240

gncaagaang ccaagcacgn cgncgagggg cnccagagng ccgagncnga ngaagaaggn 300

gacgacgagn gaagaagcca c 321

<210> 37854
<211> 240
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-A7

<400> 37854

gcngngngan ccgagacang ccggcnncnc gngggaaagg aaaaaaaggc acagacggac 60

gagaacngga cgcaaaagcg ngnccangan cgcgnaagca nggcgaaacc anncaaaagg 120

caaancagag aagaacangg gcagggcnaa gcacgggaac nnggagggac caacgaccgn 180

gngccgcgag accagcnagg aggaaaggag aaacgngnng acaaacaaca ggacgaggag 240

<210> 37855
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-A8

<400> 37855

cgccgcncnc ncnnnccccg agcccncgaa acccnagggg cgngccgacc ggcggcggcg 60

gcgaggngan ggcgaaggac ccggacgcgg nggcgaaagc cnncgnggag cacnacnacc 120

ggacgnncga caccaaccgc gcggcgccgg nggggccgga acaggagacc nncaagcnca 180

ccnncgaggg ccagaagnnc cagggcccaa ccgccanggc cggcaagcnc ggaacgcnac 240

ccaaccaggc cggcgagcac cagaacgnca ccgncgacag ccagccgncg gggccccagg 300

gaggcaagcn cgncnncgnc nccggagcca accgcaccgg ccccgaggag cacccc 356

<210> 37856
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-A9

<400> 37856

cccacgcgtc cgcccacgcg tccgttgacg cgtgggcgca tataaaggtg tcgatggaag 60

gaattctact ttttttgct gatgaagaaa gtgaagtang tgcaatcgat ttccccatta 120

ttttattact tgcattttga ttatttaaat tgttattcct attggtgcga ctactagagt 180

taatattaca ggtaaaaatc ttacgaatac aatagaaata ccattgggtg gtgctggagt 240

acctatttcg tcacaaggtt gtgattcctg ccatgttttt tttttctgca ttggtagttt 300

cacttccaaa gcttttctag cttcgtggta aggtaaagag ncactactct gctatngtac 360

tagatctcat g 371

<210> 37857
<211> 325
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-B1

<400> 37857

cagatccaga gnacttttgc aggaactgat ggttattgct ggtagatact cttttaatcg 60

gttattattt tggtcagctt atggtaaggg tctgatgatc tagtgttgca tgcacattag 120

tcttgctgtt tcagggaggc gcggacacaa gtatatacca ctcagtcgac ttcaaattgt 180

gctcgatgat gagggctatt actcctcggt gctcttttcc atctgtgtca tcatgcaaag 240

aaattgaagt tacaccttct agatctgtct atcacttgta aattggggct gttgatgctg 300

ctgcaaagat acgatatctg gatac 325

<210> 37858
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-B10

<400> 37858

gttcaagatt cagatgatgt ctggtttaag aaattggaat cttgtataac acctgcgata 60

gaggcagcac agctaaagaa gtttccagag agactatctg ccattcctcc cagaattctg 120

gagggtcagg tcccagacat aacagaagaa gtctatgagg aggataataa gttgtggaag 180

aagcatgtta atacttataa gagggtgaac aagctgatag gttcttcaag gtacaggaat 240

attatggaca tgaatgcagg ccttggaagt tttgctgcaa ctcttcattc ttccagttcc 300

tgggtaatga acgttgtgcc ctctatatca gaaaggaaca ctctnggtat catatatgag 360

cgaggtctga ttggtatata ccatgattgg tgc 393

<210> 37859
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-B11

<400> 37859

ctcgcccttg ccaaggtcga cgccatcgag gaaaccgacc tcgcccagaa gtacgaggtg 60

cagggcttcc ccaccatgct gttcttcatc gatggcgtcc ccagaggcta taacggagcc 120

aggaccaagg aagccatcgt cgactggatc aacaagaagc tcggcccagc cgtgcaaaat 180

gtcaccagcg tcgacgaggc ccagagcata ctcaccggag atgacaaagc cgtccttgcc 240

ttcctcgaca cactatccgg tgctcacagt gatgagcttg ctgctgcttc gaggctggaa 300

gatagcatca acttttatca gacttcgact cctgatgttg ctaagctntt ccatatcgat 360

gcagcagcga agcgtccatc cgtagtgctg ctgaagaaag aggaagagaa gttgaccttc 420

tatgatgggg agtttaa 437

<210> 37860
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-B12

<400> 37860

cggacgcgtg gggcctgaaa gaggatcaga cacccttat cctcatccag gatggtgact 60

gcaagaagtt cttgaaggtt cacgttgagg ctgaccagat cgtctcttgg ttgaaggagt 120

actttgacgg caaattgact ccgttcagga agtctgagcc tattcctgag gtcaacaatg 180

agcctgttaa ggtggttgtt gctgacaacg tccacgactt cgtcttcaaa tctggcaaaa 240

atgtccttat tgaattctat gccccctggt gcggacactg caagaagctg gcgcccatct 300

tggacgaggc agccaccact ctccagagcg acgaagaagt cgtgattgc 349

<210> 37861
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-029-Q1-K1-H7

<400> 37861

ctagggtttt tgattttagc cgccgccgct gctcatctca catccctcga gaagacgcct 60

gctcctcgcc gatcgatacg atggccgtct tctccgacct ccacaccgcc gacggcctca 120

agtccctcga ggctcacctc gccggcaaaa cctatgtgtc tggtgactcc attactaagg 180

atgacattaa ggtcttcgcc gcggtgccgt cgaagcctgg cgctgagttt cctaatgccg 240

cccgctggta cgagaccgtc tctgcggctg tagcctcaag attccctggt aaggctgttg 300

gtgtaaatct gcctgcggga tcagcttctg cggcagctgc tcctgcggat gaagcttang 360

atgatgatga acttgatctt tttggtgatg aaa 393

<210> 37862
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-B2

<400> 37862

cgncgagcag gcccgcnncg gcgncgncnc cggcgcggac atactcgcgn ncgcggccag 60

ggacagcgnc gcactcngga ggcacggcnn gnnagngnca gnggacgccn gccgnnngan 120

nnnaacccga canngagagn cnacanggan nnggaancca angcnggact agacngaaaa 180

gcacatgngn cngggcgacc ttnttttgac gcacatgatg ccgcgtgcag ctgcctgaaa 240

gaactcgatg cattgccggg cccgggcatg ggtccaactc ccaactttat ttttttacag 300

tatttgctta ctcttcaatc catccattca tncatccatc catccgtacg tataggccgg 360

cgggaacgcg ttccaggtgc cggccgggcg gcgggacagg ttcctgtcgc gcgcg 415

<210> 37863
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-B3

<400> 37863

cggacgcgtg ggcaaacacc attgctgatg gactacgagc ttttcttgga gacctgacat 60

ggcctgtggt gcgtgacttg gtggacgatg ttatcgttgt ggatgacact ggcattgtgg 120

acgccatgaa aatgtgctat gagatcctga aagtggctgt tgagcccaat ggcgcaattg 180

<210> 37864
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F9

<400> 37864

gtttcaagat gtcctgagaa aacagtgaac ttacaggatc tgcagaacag cttgattgca 60

tctagaggag cttgtaaaag tgcttgccca catatgggga cctggagaac tgaatccgtc 120

tagtgtatca ctcatttctg ctctacgttc agagcttgat gttgcccgtt ctcatgttag 180

aaagctaatc aaagaaaaga agtctaatcc ctatgaaatt gaggacttaa agaagcaact 240

tgcagaagaa atggaatcgt ggaaagtcaa acaaaaggag aaggttgcaa acgctctcca 300

atttataggt tcagagctag acactgagaa gaagtcaagg gaaagag 347

<210> 37865
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G1

<400> 37865

gcctgcgtta gctgttgcat tgcagcactt cgagccttga gctgctagct cgcccttcag 60

cacagtcccc agacatggag ttcgaagacc gctgccacaa ggtccaggag cccaagttcg 120

actgcctgct cttcgacctc gacgacaccc tgtatccgct gagcgccggg atcgcaggcc 180

atgtcaagaa gaacattgaa gattacatgg ttgagaagct gggtattgac gagaccaaga 240

tcgagaacct gggcaatctg ctgtacaaga actacggcac cacgatggct ggtactcagg 300

ccatcggcta cagcttcgat tacgatgagt accacgcctt cgtccatgga aaggtgccgt 360

acgacaacat caagcctgac cccattctca agcacattct caaga 405

<210> 37866
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G10

<400> 37866

tgctcgcctc gggtcaaacc ctaagcaggt agttgattta tccgctgcag ccatgagtga 60

gttgcagtct gagtctgtcg aggatgccat ctcccagatt gttggggatg ccaaggagaa 120

gaataggaag ttcactgaga ctgtggaact tcagattggt ctgaagaatt atgatccaca 180

gaaggacaag cgtttcagtg gctctgttaa gttgccccat atccctcgtc ccaagatgaa 240

ggtgtgcatg cttggtgatg cccagcatgt tgaggaggcc gagaagatgg gacttgacta 300

catggatgtt gaggctctca agaaaatgaa caagaacaag aagcttgtta agaggcttgc 360

caagaagtac catgctttct tg 382

<210> 37867
<211> 283

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G11

<400> 37867

cggacgcgtg ggcggacgcg tgggcgcctt cctccgcggc tcaaaccttt ccccttctg 60

gcaattcccg ccgccgctcc atgccgtaac gcgacaccat gagggagtgc atttcgatcc 120

acatcggcca ggccggtatc caggtcggaa acgcgtgctg ggagctgtac tgccttgagc 180

atggcattca ggctgacggt cagatgcccg gtgacaagac cattggggga ggtgatgatg 240

ctttcaacac cttcttcagt gagactggtg ctgggaagca cgt 283

<210> 37868
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G12

<400> 37868

gcaatggcgg accaggctaa ccaacccact gtccttcata agctcggtgg ccagttccag 60

gtgcgctcga tcatctctga aggtgtacgg gcccgtaaca tatgcccatc tgtctcatct 120

tatgaaagga gatttgccac aaggaactac atgacccaga gcctttgggg cccttcaatg 180

tctgttagcg gtggcatcaa tgtcccagtg atgcagaccc cgctctgtgc taatgctcct 240

gctgagaaag gaggcaagaa cttcatgatt gatttcatga tgggcggtgt ttcagctgct 300

gtttcaaaga ctgctgcttg ctccatcgag cgtgtgaagc tgcttattca gaaccaagat 360

gagatga 367

<210> 37869
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G3

<400> 37869

gccaccgtcc gtaggagcat ctgcaggcac tagctccgca acctggaccc gttcctccag 60

ctcgacgagt tcactgtctc caagcccgcc gggttccccg accacccgca cagaggattc 120

gagaccgtca cccacatgtt tgaggggcc atcatccacc aggacttcgc tggtcacaag 180

ggcaccatca ggacagggga cgtgcagtgg atgacggcgg ggcgaggcat cgtgcactcg 240

gagatgccgg ctggggacgg cgtgaacgag gccctgcagc t 281

<210> 37870
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G4

<400> 37870

gcagcaagca ggagcagtac aggaggcgcc tagagcccag cgtcggagat ctccgccgcc 60

gtggagacgc tggccagcgc catgcggcgc gagaaccgcc ggtccaaggc cccgccctcc 120

tcctctgctt cctccgccct cgcctcgggc agggtccctc tcgtcatggc cttcctctcc 180

tgcctcgcct ggctctacgt cgccggccgt ttgtggcagg acgcgcagac ccgggcgatc 240

ctgtccggcc tcctcgagaa gagctctacc agcgtcccga aagtgctctc ggtgg 295

<210> 37871
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G5

<400> 37871

aaggcaggca ggaatgcatc tgccatttga acagagcaac ctgcacatta tttatggatg 60

cctgttcaat ggagggcttg gtcattacat gttcgtatat actagaaaaa acagaatatt 120

agcattaatc catagttaat taaagtatgt taatgcgcct gttctttggt gagtactgta 180

atcatatgac ttgggactgg gaaattttca cagaaagaat ggatgtgaga tacacaaaaa 240

ttaatgccgt ggtcaaaaaa agaaaaggcc tgcaactctg gatcaatcct atataaaagg 300

gcg 303

<210> 37872
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G6

<400> 37872

atggccttgc tctcccgcct cacctggctc tacgtctccg gccaattgtg gcaggacgca 60

cagacccgag ctatcctgta cggcctcctc tagaagagct ctaccagcgt tccgaaagtg 120

ctctctgtgg aggacaagct tatgaacctc ttgtgcaagg caatttta 168

<210> 37873
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G7

<400> 37873

ggccggaccg acgcattcgt ccgcccaccc gtccaccttt tttaggcact agtctttcaa 60

cctggaccca ttcctccagc tcgacgagtt cactgtcttc gaggccgccg tcttccccga 120

ccacccgcac agaggattcg agaccgtcac ccacatgttt gatggggcca tgatccacca 180

ggacttccct ggtcacaagg gcaccatcag gacaggggac gtgcagtgga tgactgcggg 240

gcgaggcatc gtgcactcgg agatgccggc tggtgacagc gtgagcgagg gcctgcagct 300

ctggatcaac ctctccttca aggacaagat gatcga 336

<210> 37874
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G8

<400> 37874

gcagcaagca tgagcagtca ggaggcgcct tgattccagc gtcggagatc tccgccgccg 60

tggagactct gaccagcgcg gtgcggcgcg agaaccgccg gtccaaggcc ccgccctcct 120

cctctgcttc ctccgccctc gcctcgggca gggtccctct cgtcatggcc ttcctctcct 180

gcctcgcctg gctctacgtc gccggccgtt tgtggcagga cgcgcagacc cgggcgatcc 240

tgtccggcct gctcgagaag agctctacca gcgtcccgaa ggtgctctcg gtggaggaca 300

agcttaggaa cctcgggtgc aaggcgattg gaaagaaaat tg 342

<210> 37875
<211> 332
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-029-Q1-K1-G9

<400> 37875

cccacgcgtc cggtagctat tgccccttt ttaaaggatg tattggacag tctggaattt 60

gcaaggggga gtgcagattc agcatggggc tctgttaggg ctgcaatggg gcaccctgaa 120

cctttcctgg tcaaacatgt cgcaattgga aatgaagatt gcgggaaaaa gttctaccgt 180

ggtaattacc tcaaattcta caatgctata agagaggcct atccagacat tcagatgatt 240

tcaaactgtg atggttcatc tagaccactt gaccatnnct gcggattgta tgaattccat 300

gtctatactg attcctagga cttgttaaca tg 332

<210> 37876
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H1

<400> 37876

cccacgcgtc cgcccacgcg tccgcccacg ctttcgaaga aatcagatga agtgaccaag 60

agcaatgtga ctatataata ataataaaat taacagaaga ggtacataca gtttcacttt 120

aattttgaaa tgcaacagca gcttgatgtc tctattgaac cctagaaaca actgaaggag 180

aaaatactct tccacaagga ataggattct catttgtgct agcagaatca gagttaattg 240

catcattagt tctaggaacc tgctggggtg aactttacca cccagaagag gcataaccaa 300

tttcttagaa agaccaccac tgttaatctt gtcatcaatg gtcaatatat ttcttttgga 360

caagtcattt attataagt 379

<210> 37877
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H11

<400> 37877

cccacgcgtc cgcccacgcg tccgctctga tctgttgcaa gggcacgcct agggtttctg 60

gccttgccta tactgtttgt ggcggataag tcgtcctatc ctagagggag acgccctgga 120

gcctggaatg gctggctttg cagtgctctt ccagcttgtg tggatgtcgt tgctgcacat 180

ctaacagcag tggctgatgc ctagaggtgt gttctttagt tcagatctat cctgttttac 240

agtactaggt taatgaacat agtgacagac acaatccaaa tttattacaa aatagtaaat 300

aagcaaaaaa ctatatttcg acttacatag catggtagct atttttttcaa atagattgcg 360

ccagatcaaa acacaacgac agactatttt tatgttctcc aatgcatg 408

<210> 37878
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H12

<400> 37878

ggcccacgcg tccgttccac gcgtccgttc acgcgtccga gacgggcctg ggcgtctgçg 60

tgggtatata gctcttcagg gtcctgctgc aggtcacccg ccccaacgtc gtggtggagg 120

gcctcgtccc ggggacgcag agctaccgca gcgtggcgca gtaccgcgag gccgtccgcg 180

tgccgggctt cctcgtcgtc ggcgtcgagt ccgccgtcta cttcgccaac tccatgtacc 240

tggtggagcg ggtcatgcgc tacctccgcg acgaggagga gcgcgcgctc aagtccaacc 300

acccccttcat ccgatgcgtc gacctcgaca tgggcgccgt ctc 343

<210> 37879
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H2

<400> 37879

aggagctcgc acaagcctat gaggttttgt ttgatccaga gaaacgtgag atttatgatg 60

agtatggtga agatgcccctt aaggaaggaa tgggcggtgg aggatcccat gttgatccat 120

ttgacatctt ctcatcattt tttggaccct cttttggagg aggtggtgga agcagcaggg 180

gaagaaggca aaggagggga gaagatgtag tccacccact taaagtttct ctggaagatc 240

tttacaatgg cacctcaaag aagctctctc tttcgcgcaa t 281

<210> 37880
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F8

<400> 37880

ccactcgtcc gcggacgcgt gggcggactc gtgggtgatt ttgatgggtt catccatttg 60

cagattgaaa gccaagatat gcctgggctt agcttcaaaa cacacccaaa tatcaataag 120

gatttgttta acagtcagca aattttggga gcaaaagatc caaacaggcc ctttccgagt 180

ggtcaaaatg aaactcctct ggtgaaatgg agaatccagg ggatggatga gtcgtcttta 240

cctctgtcag tcaattgctg gccgtcagta tctggaaatg aaacctattt gaacattgga 300

ttttgaacct tttagaatgt 320

<210> 37881
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H5

<400> 37881

cccacgcgtc cggcatgaga aggcttttgt ttcgaaacca ggcggcattc caactggtgg 60

cggtgtaggg ggagctgaat gagcttttga tcacttatcg atggccaaaa aaagggagga 120

aacgtgatta catgcttacc acagttgtgc tggaaccgaa tcgccttgac cttgaatgga 180

tattttcatg tttacttcac gtatgataag gttaacagca agaaaaatca tttacgttgc 240

atgagagcac ttaatcatac ctgaagggtt ttgtagatct cgatgctatt tcatatgatg 300

catcaagttt tgtgacgttg acttaagact tattattatc atgattgact tatagtggga 360

cctgtacgct atggc 375

<210> 37882

<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H6

<400> 37882

cccacgcgtc cgcccacacg tgcgtttgct ttttacaaga tgctgctaac aagcaggtgg 60

attttgtgaa ggagtacaag gaagattttg aacgtgatct tgacccagag agcgctacta 120

cttttcctgc aacccttgct gaacttacgg agagattgaa acactggaag aacattcttc 180

aaagtaatgt acaggatcgg gtcccagcag tattaaaact ggaggaagaa aaggaaacac 240

ttagggattt tcatgttgat gatattgaac tcccaaggca gtactttaca gat 293

<210> 37883
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-029-Q1-K1-E1

<400> 37883

gtaagcaaaa acaatttcag tcattgcaac tacaccgata gcaagttggt atacctcttt 60

ttttgctttt ccttgttaga aatactcagt caagatactg atggatggga gcatcaatca 120

acagaagaaa tgttatgtta aaagttaaaa ctgtatccat ccaatgaaga taacagattc 180

gaacatctac ttttctgtgg ggagcaagtc ttcatatttg acacagtcac ggcaaagttt 240

ccccaaacaa aacgactctt ggaacacatt ggcaatgtct atacatctnc cacataacat 300

acatcttcag atgccaaaca tacacccctc tgcaagtact atgtctgctg gtcttgcact 360

cctttgatgg gcaatcataa acaagtttgt agtttggaca 400

<210> 37884
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E10

<400> 37884

tccacttccc ttccacaacg gaataacaat ttggatacac tactatgttc atgcaagtcg 60

agaggccata catggtattt acaggacttg aagactataa agcacgaggc acacaagcaa 120

gtccttacta cacagtcact cattacacag agtttgctga gaccaaggac actgtgctta 180

ttcgaggaga tgttgttttt accagcaaac taaccgattc agaggcaaag actcttctag 240

agactgctca ctcgttctac ctgaatgatg tgagatacag actcgtggag cgcttcaaca 300

aagagactca tgattttgag ttcggggacg tccttaaagt gcttgacatg ccaaccatgt 360

gacccagttt a 371

<210> 37885
<211> 125
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E11

<400> 37885

actctcctaa catgctatca cttctttgaa gtacatctaa ttattcactc ttgcatgaag 60

tacttcattt ctttttattc tgcatcttag attctacatg attattgttc ctataataca 120

gacca 125

<210> 37886
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E12

<400> 37886

gttaatctac cactctcact agaatgccct tggcaataaa tacaaccttt tcacacattg 60

gaaggttcgg taccttttc ggtagcactt gttactatta ttgcctggga ctatcacgag 120

agagtggctg aacaaccgct cacgaattgc tgattagtga ggctccggac gctttgctga 180

tgtcgacagg tgtatttttt accaggggc taaccgtgag aggggcacat actcttgtcg 240

cgactgatga ctcgggctta ctggatcatg acatatacag actcctggtg cgctttaaca 300

aagtgactta tgatgttgaa tgcggtgacg tccttaaagt gcttgacat 349

<210> 37887
<211> 404

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E2

<400> 37887

cccacgcgtc cgcggactcg tgggccgatt gctttttcgg atgcggcgga attagttcag 60

aagtgctaag gttgtcagag atgtgcaaga gatcaaaaac aaccttcgtc cttgacacag 120

ctcatacaac ccatctggcc attgcaaagg tggggccttg acttgttggg tccattacca 180

ccggcccaag ggaacttaag atatgttgta gtggctgtgg aatatttttc caaatggatt 240

gaggcaaagc ctttagccac aataacttcg gccaccattc aaaagttttt ctggaagaat 300

attgtttgtc gtttcggggt accaaaggcc atcactgtgg ataatggaac acagttcgac 360

tccgaagctt tcagagattt ctgtgatcaa attggtacga agat 404

<210> 37888
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E4

<400> 37888

cccacgcgtc cgcatttccc gtgtacgctt cttttcccga ggagttccgg cggcaggtgg 60

cggctcttat cgggtacacg tcgctgggag cgttcgacac gtgcttcaac actgactagg 120

tgtctgcggg cggcgcgctc gccgtgacgc tgcacatgga ccggagccgt ggacctgacg 180

ctgcctatgg agaacacgct gatccacagc agctccacgc cg 222

<210> 37889
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E5

<400> 37889

agctcaccca cgcatataac aagatttttt tttgatccta caccgaaacc ctcaaggtgg 60

tgtctcgtac ttagtgcgaa cccaaataca aatatcaccc tccgaaatac agagcaccgg 120

tctttacaca ccacgagata aaactcatgg agcaacctga tgcatactag aaaaaatctg 180

tatacaaaca tcggaaagat agcatatttt cggcagaact actaccaaat gggttgcatg 240

acacacgac 249

<210> 37890
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E6

<400> 37890

cattacccca gcggcccagc gtgcggtgac tgggagacgc gctccccagt ccccacggcg 60

ctctcgtgtc gtggcgacga ctgggggggc tgtcgctgcc gccctacgtc aggtggccag 120

gtcgtattag ggcacttcgc cggcgacgag taccacaagt ttgcaggcag tggacacttt 180

ctctggtatc agagggtcaa tgtccaatta ttatgatgac tacgatgaca ttgacgagat 240

ggaggatgat tatgatatgg atgatcccat tgatgacatg gtagacgaac agcaagggat 300

tagggattct gatgcggaag ataatgatta tggacaacca aatgataaga tcccagatac 360

ttcatcagca gatgcaagaa aaggaaggga cattcaagga atacc 405

<210> 37891
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-029-Q1-K1-E7

<400> 37891

gtctggagtc tagactcagn gttgttaact taagtttaat catcttagca actacggtac 60

gtgaccctga gcgcctggtt gttggcaaac aaccgacacc ttgggcctac accttaaaag 120

gttttgcgcc gacattggct tttcataagt gctcaatcgg gatctatccc ctcgagcata 180

gagaaaaagt atcaattttg acaaggggct ccaatattct ttaagcatgc ctacctcaat 240

ttgccacaag ccagaatgcc atgatatgat cgatgaaatg gctgttgccg gcaaatgact 300

ttcaaggatc aattgtcttt caagaaccac accttgtatt ggattacggg 350

<210> 37892

<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E8

<400> 37892

ctacatttct tctctctctg ctcctccgtt ttcgcctgat ccatccaaga cagggatcgc 60

catgtcggac tcggaggagc accacttcga atcgaaggcc gacgctgggg cgtccaagac 120

ctacccgcag caggctggca ccgtccgtaa gaacggcttc atcgtcatca agaaccgtcc 180

ctgcaagggt gtggaggttt ctaccttcaa gactggtaag catggccacg ccaaatgcca 240

ctttgtcgcc atagacatat tcaatgggaa aaagcttgaa gatattgctc cttcatcaca 300

caactgtgac attccgcatg tgaaccgtac tgagtatcag ctgattgata tttctgagga 360

tggatttgtg agccttctta cttcagatgg caacactaag gatgatctta gactcccaac 420

tgatgag 427

<210> 37893
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E9

<400> 37893

gcattttgca ctctaccagt cgctgaagat ttccctttat aagcctgcgg catttaacaa 60

gggaattttg ctaccactct gtcgggaaag gaattgcacc ctacgcgaag cagtgattat 120

tgggagtatt atccagaaag tttccattcc atttctccat gcaagtgtag ctctagtaaa 180

actagcagag atggagtact gtggcactac aagttacttc atcaagctat ttctagacaa 240

gaaatatgct ttgccatacc gtgcacttga tgcagtgctt gcccatttca tgcgttttgt 300

tgatgatgag aagatcatgc ctgttatatg gcatcaatca ctgcttgcat ttgtggaaag 360

atacaagaac gag 373

<210> 37894
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F11

<400> 37894

tgactgatgg cgatccaaca gggttttgtt tacatactct atcaattctt gtgaatgatg 60

tccgtggagt tctcaatctt ggaacaggtg tattctccag aaggggctac aatattcaga 120

gtcttgctgt tggcccagct gaaaaagaag gaacttctcg catcactact gttgttcctg 180

gaactgatga atccattgcc aagctagtac atcaactgta caagctcatt gatgtttatg 240

aagttcagga ttttacccac ttaccatttg ctgctagaga gttaatgatc ataaaggtcg 300

cggcaaatgc tacagctcga agggatgtct tagatattgc tcagattttt gaggcacaga 360

aagttgacat atcagaccac acaattacac tac 393

<210> 37895
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-029-Q1-K1-F12

<400> 37895

gctggtgtga cacttaagtg cgcaaatgct ttgcagaaga aaactgtcaa catacaaccg 60

agacggtcag caaatgataa tgttatgaac acaagcagag cttcttaccc ttgtgagaac 120

tatgaaactg aaagaagagg attagggaaa agaactctgg gggatcctca agttacaatg 180

ggtagttcaa tggtagtgga tggctcattt gtatcatcta tgtcctctga taactcagtc 240

gaagaaagca gctttcaaca actgcaggat gctgttagtc aggtatcatg ggttactagt 300

tttctttttg atttctttta atttcccata tagcataaac tctagcctac agcagtacag 360

ccccttcatt ntggtattgc aaatccatgc tgtgtttgta gtttcttttt ttttcctttg 420

gggttttttg atctctct 438

<210> 37896
<211> 56
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F2

<400> 37896

cccacgcgtc cgagattatt gatttggcgt cgttgaccgg cgcttgcgtt gtcgca 56

<210> 37897
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F3

<400> 37897

cggacgcgtg ggcgaaggcg tgggcatgct tccttggtcc caccacgtcc ctgtgagcgg 60

cgtggacgaa ggcgacgaga tgacgccgta cctgctcgcg gcgctgcgcc agtacctgcc 120

gtgcaacgac gccggcgccg aggccgaggc cgaggaggat gaggcggcgg cggccatggc 180

ggcgggcgtg gacggctacg gctgcgacga gttccgcatg tacgagttca aggtccggcg 240

gtgcgcgcgc gcgcgcagcc acgactggac cgagtgcccc ttcggggcac ccggggagaa 300

a 301

<210> 37898
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-029-Q1-K1-F4

<400> 37898

ccgggccgac cgcgcgcgtc cgatcagagt aaacacagca gaaccctagc gcgccgtttc 60

tccgacgact cacatcccac gcgacgggcc accccatggc ggccaggggc tccaccagcg 120

ccgacgcccc ggcctcggtg cggctctccg cagcagcgca ggcggctgcg atccagccct 180

cctccccgcg cttcttcttc tcctcgctgg ccgggaccaa cccggcctcc ccgcatcgcc 240

gcatcgccat tgccgtcgat ctctccgacg agtccgcctt cgccgtcaag tgggccgtgc 300

agaactacct tcgtcccggg gacgccgtcg tgctgctcca cgtgcgcccc acctncgttc 360

tcta 364

<210> 37899
<211> 123
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F5

<400> 37899

accacgcgta agccaataaa cagctttcta tcttaacata gactgaatac cagcaggtgg 60

agtcatttac acaattcgat gccaaatctt aacattatct ttcgccatca catgctctga 120

aat 123

<210> 37900
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F6

<400> 37900

cgatccacat agccattggc agttcagttt tccgatcctc taccgcagca gcgtaggcaa 60

agtaggaggc aaggatcaat ggcgccgccg cggatctcct tcctggagct ctgcctctcc 120

ttcctctgct tcgtggtctt ctactacttg cacatcagat ccaagcggaa gaacccttтc 180

gtgccgctgg actggccgct ggtgggcatg ctcccgggcc ttcttgggaa cctttcacca 240

ccttcacgac tgggatc 257

<210> 37901
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D9

<400> 37901

gcacctcctt tcccacgact cccgagcgct ttgcgtgtgg cgcgcggcag catggcgact 60

gcgagctgga gcagcaaggg ggcgttcgag gtgcccaagg tggaggtcag gttcaccaag 120

ctcttcatcg acggcaagtt cgtcgacgcc gtctccggca agacgttcga gacccgggac 180

cctcgcaccg gcgaggtgat cgccagcatc gcggagggag gcaaggccga cgtcgacctc 240

gccgtcaagg ccgcccggga ggccttcgac aacgggccct ggcccaggat gacgggatac 300

gagcgtggtc ggatcctcca caagttcgcg gacctgatcg acgagcacg 349

<210> 37902
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C2

<400> 37902

cccacgcgtc cggtccttat catgagtctg ttttcaaata aacttatgag ctatatgtga 60

gactgacaat attacctcat gaataaattt ccttactgaa acaggctcta aaaacagaag 120

ttactagagc acgcatccaa ctattggaac cattgattaa gggatcaggt ggagtggagt 180

acctgcagaa gtcttttgct ggtcgctgtg gttccccttc tgatgcgtta gcttctctcc 240

cttcaactgc ccggtggatt ttctctttga aagatgtcgt ggaagaacaa tggaatgaac 300

atgtcagctc ggtatcaatt ctgccagaag cagaccatgt tcagaca 347

<210> 37903
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C3

<400> 37903

cccacgcgtc cgcccactcg tccgcccact tgttttgctt tgttcacgaa caaaaccgga 60

gggggttcat tagctaccag gaaagttacc aaacttaacc acttgaatta ccttccaaac 120

ataacggcca gcaccatgtg ccacatggtc aattcaatgt ccagcttaat ggcaccaggt 180

ggaccttaaa accatagacc aaaccaaact tgaacaccta ccttccccat tcttacgcct 240

tattaaaccg caccaaggca aaccaatgct tccaaaaca 279

<210> 37904
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C4

<400> 37904

gcttcacaac atgctatctt ctttttttgct tgagttccac agatatggaa gaattttacg 60

aatgaaggga ccggcgagct aagcttcctt acctgtttca tgaactttgc tggttccatc 120

gtaagagttt ttaccagcat ccaggagaag actcccttaa gtgtgatcat gggctccgca 180

atcggcatcg tcatgaatgg tacgctcttg ggtcagatag tactgtacca gaaacccgct 240

tcaaagaaac cgaagaaagg agatttagcc accttgagaa acctccaaaa ggtctttccg 300

ggtggttaa 309

<210> 37905
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C5

<400> 37905

cccacgcgtc cgcccatcgt ccgttgactt gtgggcggac gcgtgggctc ccgggggggt 60

gtcttgtcgc atccggcggg ccaaagctct ctctgctcgc aggtcgcagc catggcgaag 120

aactacccga ccgtgagcgc cgagtacagc taggctgtgg acaaggccag gcgcaagctt 180

cgagccctca tcgccgagaa gagctgcacc ccgctcatgc tccgtcttac gtggcactac 240

gcgggg 246

<210> 37906
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C6

<400> 37906

cccacgcgtc cggaaagaat tgtcactaac tattcattta tggagaccct aagaggctta 60

gatcagaggg gactgctagc aagatttgtg attgatgaag cacattgtgt aagtcaatgg 120

ggacacgatt tccgtccaga ttaccgtggt ctaagatgcc tcaaacagaa ctttcctacg 180

gtcccgatca tggctttaac cgcaacagca accgaatctg ttcgtaagga cgttctttgt 240

gccttgagga tccccaacgc tgtggtactt gaaaagagct tcgacagact gaacctcaac 300

tacgaggtaa tcggcaagac gaaaactttc cagaagcagc tgggcgatct cctgaaagag 360

cgcttcatga atgagtct 378

<210> 37907
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C7

<400> 37907

gatcctgtcc agccactcct ccgacttggt gtacctcggc cagcgcgaca ccaaggaggg 60

gacgtttgac accaaggtgc aggaggcgtt caagcggttc ggctcgcggg tgacctagat 120

cgagaaacgc gtcttcacca tgaacgcgga ccctttgctc aagaaccgta acgggccggc 180

cgagttgccc tacacgctgc tctaccccaa cacctgcgac acgaacggcg acgccaccgg 240

catcaccggc aagggcattc caaacagcat ctacatttga gttctgtctg agctgaagac 300

gtacggtcgt cgcactagtt gtttgcgttt ccccgttccg ttccgtgaag tgtggttctc 360

acttgcgcgg tattgtgcaa atagccaagt actccttacg gaagtcgcta cgtgaggact 420

gttgtaataa 430

<210> 37908
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C8

<400> 37908

cttctgtcac cgcagcaaca agggaagtgt tcaagaagga agaatccaat accaattggg 60

acttccttgg cccggatttg gcctgcgctg agtgagttac caggagtacc agggaatcga 120

agaagatagc cgaaaagttg aaggaagcaa aggggttgag caagcaagaa gaacaggtat 180

gtggaggtaa gtagtttggt atgggtctgg tatgccttca tcacccaatt tacagactac 240

ttatatccga tcaatatggg ccaattacaa tccacgggcc atacggcaca atttcacaat 300

actatgacca ccctgagtga tgcacatgcg tgacaggatg gcggtggcga actggcgaga 360

tggagaaaag ggaaagcggc aggggattat gagccaggat ggaaccacc 409

<210> 37909
<211> 348
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C9

<400> 37909

ccaagccttc acaaccatcc gagccgattt ctaccagctc acataacgct aaaccctacg 60

gacggttcta caactttatg gagaatctct tccgcatcat actggagcca ctttgcttca 120

tccttctatt cggctgctgc cgaatagaat ggtggatctg actgatgatg acaatactag 180

gctacctgcc cggaatcatc tacccgacct atgtaccact tggtctcgac tctcaccagt 240

atgagaggta atactacacg ctgggttaga gcatctggtt gtgccaatcc agtctaaaca 300

cttgattgga aatcactatc tctttctcta tgcggatcgt gtgacatg 348

<210> 37910
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D1

<400> 37910

cttgcatcgg ccgccggtcc tccatccatt tgtttagcta gcaacgacga cacgctagcc 60

agggatcgta gccgaccggg gtctgcgcgc gggcattcag ttcgccatgg cgcgcctgct 120

ccgcgccgcg gccggcctcg cgctcctcct ggccgtcctt gccccggcgg cgtcggcggg 180

cggcgacctg gcccagctgg gcgccgccgt cgagacgcgg cgcggcggcg ggcaggacga 240

cgtgccgcgg cggcacggtg ggcgagtgca tggagtacct ggacgtagac gcggagggcg 300

aggcggacgt ggcgggcatg gccaccggcg gcggcggcgg caagcgccgg gtgctgcagg 360

gcggcttcgg ctacatcggc tacgacgcgc tgcgcaggga caacgtg 407

<210> 37911
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D10

<400> 37911

aagcgctgat gattttacta cgagcgggta tattgaaatt tcgtgcgttt catggcctat 60

tttcaggtgg cgtggtcgaa agcgatgaca aatattttac caggcttgct aagaatataa 120

tatctgtata ctaaacatat acattctccc ttcttgataa gaagtctttg aaggtagaaa 180

atgtagtgca cttcagctgg tctcccactg atcctatcat atctctgatc gtgcct 236

<210> 37912
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D11

<400> 37912

cccacgcgtc cgcggacgcg tgggctgctt tcgagttaag tatattctga gctcgtctgc 60

ggccaaaagc ttccatttgc gttgcgatgg gggctctacc tcgtggcctg ctagctggca 120

tctgcgccgt cttgttagca gcagtggttg cccttgccca tggtgcggaa caggaaacag 180

cgtcaatggt ggtcggcttg gccaagtgcg ccgactgcac caggaagaac atgaaagctg 240

atgcggcatt caacggcctt caagtggctg tcaagtgcaa gaacgccgac ggcgtcttcg 300

agaccaaggc cctcggtgag gttgacaagt ccggcagct 339

<210> 37913
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-029-Q1-K1-D12

<400> 37913

cttcaattga ggctgcgaag cagcgcatgt tagagcagct gagtgcagca actgctgaag 60

gggtgatgct gtcgactgag gagactgaga agaagatgaa acaggcaacc cacaaagatg 120

gaagcactaa tggttcagca aaagaaatcc ctaatgacaa gcctgccgtc actaagccta 180

gtccctatga agaactgatt ggagacatca aggctagcct aggaagtgct ccgaccccta 240

cccagctcaa ggctgtgctg gcctcatcaa cccttcctcc ccaggacgtg atgaatgctc 300

tcctggaagc tctctttggt ggtgtgggta aaggattcac caagaggttg tgaagaacan 360

gaagtacctt gcagttgc 378

<210> 37914
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D2

<400> 37914

aattcgggtc gattacgcgt ccgcccacgc gtccgcccac gcgtccgccc actttttgc 60

ccacgcgtcc gcccacgcgt ccgctgggcc ctgaaggaca agcaagagtt catcgacatt 120

gtggagaccg tatacagggg cgcccggaaa ggccgtggtc tggtgattgc tccaaaggac 180

tactccacca agtaccgtta ctaagaaggc aggcattccc cttatgcaat ctattgggga 240

tgtttacacg gacagttagt ccgacaggtg atccctaact gtatcttggc ataccctaat 300

aattcaagtt gctggcttga gtgatgctta tccatggctt ggcatgccat agtgaacatg 360

taaacctgtg atttgaggtg attattcgag tgtaaagaaa ccaggattgc gttcggctat 420

gactat 426

<210> 37915
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D3

<400> 37915

cggacgcgtg gggcaccaca agcgagcgat gtattcgggg cggaagaaga gagagaagac 60

gtggctctcc tctcggcgtg cgcggtcccc aacctctcgt ctgctgcctg cctgcctgcc 120

tgcctgcaaa aaggagtttg tcatggcgtc taagcgcatc ctcaaggagc tgaaggacct 180

gcagaaagac ccccccacat catgcagtgc aggtcctgct ggtgaggaca tgtttcattg 240

gcaagcaaca attatgggac cacctgacag tccctatgct ggtggtgtct tcttagtgaa 300

cattcatttc ccgccagatt acccccttcaa accttcaaag gtttctttca agacaaaggt 360

cttccatcct aatatcaaca gcaatggaag tatatgcctt gacattctca aaga 414

<210> 37916
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D4

<400> 37916

ccagccgcca ccaggtgcag agtctttcgt tatctcttct ccggcgaaga acccccaggc 60

gcgcaccaga tcacttgtta aactttgttg aggggtgatg gcggtttctt tcgcaaacct 120

caacaccgag gcagggctta aaaagcttga tgagtacctt ctcactcgca gctacatcac 180

tggctaccaa gcttccaagg atgacttggc tgtctacact ttcgtttcgt ctgctccctc 240

gtccaagtat atcaacgtag caaggtggtt taatcacatt gatgcgctcg tgaggctgag 300

cggaattact gcagagggcc aaggtgtgaa ggttgaatcc tcagcagttc cttcagcccc 360

aactccagat gttgctgaag cacaggcccc agctgctgag gaggaagacg atgatgat 418

<210> 37917
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D6

<400> 37917

aaacagcgtt catgatatcc catgtttgtt gtcctcatgg aatttgtact ggtgaatgag 60

tagcacagcc tggagctatt caccccattt gccgcccctc aggattttag agcaggcgaa 120

tgctctaaaa tggtgatgat ggtgttttct ctttatggtt cac 163

<210> 37918
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D7

<400> 37918

cccacgcgtc cgctgagctc cgcctttgtg tttccagggt ccgggtcgcc ggaccgccgg 60

gtcgtggttg ccaccgcgac caccctggac ctgctcccgg ccaagggcgc caagcgcggg 120

ttttctgacg aggcgccccc ggcatcgact gttgccactg ccggaaaggg aaagaaggtg 180

gcagacgagg agttcgacta gaagaaagtg gcagcgaccc cggaaccggg cgacaaagca 240

caagtggtgg ga 252

<210> 37919
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C12

<400> 37919

gtaggcgttg aggcatcact ctgagacgtc ttgtgcggga ttattccaaa gtatgaatgc 60

gcggggtcag acgacatatt gggtagataa tttgctatgc tttgtgcact tatgttttta 120

gggctttcta gttgaaccgg tgcccctgtt ctgtttttaa aattgcctct atgtaagagg 180

ctgtgcagta taagtactag ccccttttgtt ttctgtcgac cgcattgcat ggtttggttc 240

gaacctttcg atgtcgtagt tctatatgat aatacattca agtgattttg ataaaaaaaa 300

aaaatatcca aaaaaaaagg gcgg 324

<210> 37920
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D8

<400> 37920

ttttgatccg gagagtggcg accgtttgct tattgagcta gctaaatcaa cttcgcgcag 60

acctcgtgga ggtgtcgaag gctaccgagt tattgacaaa cgggctaaca aaacagaagg 120

aaatgctgac catgagaacg ttggtgatga agatgatgac gaagtatggg gggaagatga 180

ggatggaggc aatgacaata atggtgatgg aggatcagat gagccatcgg gcacagaaaa 240

tgaaaatccc agtgataaga atgaattgcc tacggataag agtgatcaac cagggcacaa 300

gcagcagaat gggcaatctc tctcaaatga aggacgagac aaatcttcaa gtgatatacc 360

accttgctct actatcttca ttgcaaattt gggacataca tg 402

<210> 37921
<211> 100
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A5

<400> 37921

gcaaggtcca gaccgaccag ctgtatgttt atgcatgatg ccgtgccgtc tcgttgtcag 60

ctggttcagt agtgatgctt actttcttgt cgttgttgct 100

<210> 37922
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A6

<400> 37922

actatataat agaattagaa atatgtttgt tcaaaatgct tgttgttcta ttgtacctga 60

actatcttat atttcattta taaataatga aataatgata accaaggtga ccgattggaa 120

atgattatag ctgagagtta ttggatccag tattattagt agtttggttt acacagcaga 180

aattaagaaa tctgtgcatt tgctgatatg agaacagaag ggtactagct ggttttggtt 240

agattttggg cccctgaata cattgtgatg ttttgccccc tcgattagtg cagtctgctt 300

ggtacg 306

<210> 37923
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A7

<400> 37923

cccacgcgtc cgcggacgcg tgggtgagat tctctgttaa aaggagtacc ataatggcaa 60

gaaaactcct ctggagcatc gaccgactct ccacctgagg accgccagct ccttcctccg 120

cctcgacaag cgttggagag atggtgaaga gaagcaagaa gagcaagagc aagcgcgtca 180

cgttgcggca gaagcacaag gtgctgcgca aggtgaagga gcatgacatg gaaaaaatgg 240

ttacaaaggc tgatccaagt aaacggattg tactacttca caacaagata gatcttgttc 300

ctaaggaagc ggtagagaag tggcttacat atctgagaga agaaatgcca acaattgcgt 360

ttaagtgtaa tacccaagag cagcggacca agccgggatg gaaatcttca aaactagata 420

aaacaaa 427

<210> 37924
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A8

<400> 37924

gaattccggc cgacccacgc gtcgccacgc gtcgccacgc gtcggttctt tgagcctact 60

acctgccttg ttcgagtggg agaaggatat aaacgggcaa ttgagtggcc aaagagcagg 120

gacaaggtat ggtacagcaa tgttcctcac actaggcttg cagagtacaa ggggcatcaa 180

aattgggtta aggtctcagg tgactatcta ttgttccctg ggggtgggac ttaggtcaag 240

aatggtggcc tccactatat tgatactatt caggacgcac taactgatat tgcatggggc 300

aaacgaaacc cggtcatatt cgatgctggc tgtagagttg ccagctgtgg aagctacatg 360

tttgataaag atgcgcttac catgtgtttt gctccaaaag at 402

<210> 37925
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A9

<400> 37925

caagcatcac agttcgttac tttgttcctg tacaatttgt tgatgtcact ggaatcacgg 60

gggggaaagg ttttgcagta tgtattcttc ttgtcctaat tttctgtgat ttcacttgtc 120

aagacagttc actactttgc tgtaaacgag ataagctatc accagggttt tagttgtgtt 180

tcttactttc tttctgcaac atctctattt gattagttga aatgacacca gagtgaatta 240

tgcaagagat atttgtaata cttaagtttc tagtttatgc cctgaattta aattgctcca 300

tttcaaacat ttatttgatt aaaattggtc tctcgcaatt tatatgttag cttttctgat 360

aaaaaaagaa acactgtatg tgtttctttc agttggtgta atattttctg tagtgcatgt 420

gagcacgata ccccttgg 438

<210> 37926
<211> 393

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B1

<400> 37926

cccacgcgtc cgcccacgcg tccgcccact cgttttccca cgcgtccggc cgcaaggtga 60

gcccaattgc ctatcctgga acaggaaaaa cagcaatagc taaggggccc cgcctgtatc 120

taccatctat gagggcgcct ccacatgaat cagtattaca catctgtatc tgaaacatgt 180

cagacactgt gccgcaaggt taatcccaga tgatgaaaag aaactgcgta caccatgtcc 240

atcagaaata ctagttccaa ttccgacaca tgcgctgggc atcaaggtca acaccgggag 300

tttttattat tattattcca gaatgcgcac ggtaatttga aaatgaaatt gtggtggaaa 360

ctgtggaatc cgctaatccg gtgcggatct gca 393

<210> 37927
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B11

<400> 37927

ctcactctcc gctggtcgct cactcttgct tctccaccct tcactcagtc ttagtctctg 60

attagctcta ggctctagct ggccgcgcca ctccttcgtg tagccatcag ccttctcatc 120

gccaccaatg gccactgccg aggtagctgg atcgatcgac cctagtcttc gattcatata 180

tacatacatg tgcacggatc gtttggatcc gaataatacc tatatatgaa taatggtctc 240

tgtctcatcg atgatcggtc ggtcgatcgc tcatcttcga tgagacgtac agcgatggac 300

gtgcggatca tatatatcct atgttaacaa tggaggacgc taagattaag tgtggcgcta 360

agatggaaga gtacatgctt tgatttttac gcgccgttca cgtgtgca 408

<210> 37928
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B12

<400> 37928

gcaggcaaag gaaaaaacgg aatgaatgat tttgatggaa atagtgagga ggatgtctcg 60

gctttgaacc attctaacga gagacagttt gaacaatcct ctcaactgtt agatgtactg 120

ccggaacact tgtttgatga gaatttcaac aaggaagttc ccaagcgcgg caaagggcgc 180

agtcgcggtg gcagagggca tgggcgtggc aaccatcaat ataacaatca ccatcacaat 240

aaccagcacc accagaacaa ccagccgcag tacaataacc atggcaacaa ccaccttggt 300

gggaaccgtg gcagccttca ctctgttgga actacaccga ataacctgat aaccaagctt 360

gag 363

<210> 37929
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B3

<400> 37929

gctggggcac gactggtgag ccattttgtt gtggcagctt tgtctgcttc ggcggcacgt 60

gttgcttacg ctcgtgaacg tgagcgtagt gtaccacccg cggcggccgg agatgagccc 120

gctccaggcc atcagagctg cctgcggcga agaccactac atgtgccgct tccaggaatt 180

tggtgtcgct gaagctgaat ttgctctata tgacatcaag tgggtgttta agaagacatt 240

tggcatgcgc aagccagctc ctattattct gcccaaggac aagagcttct ttgactctct 300

tgattcagat ggaacttgtc caccatggct atcagaggaa gatatttctt actatgcaga 360

aaaatttgca aaaacaggct ttactggaag acttaactac tacaggtgca tagacaggag 420

ttgggagctt t 431

<210> 37930
<211> 240
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-029-Q1-K1-B4

<400> 37930

cccacgcgtc cgcaaatacc ctcgctccct acaacccgtc gtcgcccacg ccgtcgnctg 60

tgccagttgt ttcaagatga ggcggcaccc tgaagtgaag tgggctcaga ggatcgacaa 120

gggttacatc actggacagg tacctgatgc caaggacgct cagggcaatt tggaacccca 180

atgggggcct caccattctc tggcagtggt ggtacaaact tatatgaatt gaaaccagat 240

<210> 37931
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B5

<400> 37931

cggactcgtg ggctgactcg tgggctcaat gcagtttggg taaaaaaaaa aaaagagagg 60

ataaatttaa actaaagaaa cggtaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaggtct 120

gccgtttttc agcttccata ctttcgtttc cgtacttgcc acttcatttt tctttttttcg 180

tgtttcctta tttctgttca ttggcttttc tttttacaac ttcgtgactt ggaaaacctt 240

gccttttccc atttttatac cccttgtccc cttattcccc ttttgccatc ctcagcttta 300

tatgccttta ggccttaacc ctttttccct tcccaccttt ttttc 345

<210> 37932
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B6

<400> 37932

cccacgcgtc cggcaggggc aggcattgtg tcaaaacctc tcagagagtc acaagggtct 60

ggacttttgc ttctaaacgc cgctgtctct gtgtatctcg ttccttttcg aaaattttga 120

atccgatcga tccgcgtgtt ttcacacact tagctagcaa gatcgacgct atcacgctac 180

tgggtgccct ggatctgttg aagttgtgcc tgtaagcttc aaggtggctg ggtgtgtgtg 240

gcttcaaaat ttgggcggga acgggcgcat cctggaccga gcaaacgcgc attcgatctg 300

gctgattttt tc 312

<210> 37933
<211> 429
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B7

<400> 37933

ggtggggcac gactggggag ccattttgtg tttggcagct ttgtctgctt cggcgggacg 60

tggtgcgggc gctcgtgaac ctaagcgtcg tgtaccaccc gcggcggccg gagatgagcc 120

cgctccaggc catcagagct gcctgcggcg aagaccacta catgtgccgc ttccaggaat 180

ttggtgttgc tgaagctgaa tttgctctat atgacatcaa gtgggtgttt aagaagacat 240

ttggcatgcg caagccagct cctcttattc tgcccaagga caagagcttc tttgactctc 300

ttgattcaga tggaacttgt ccaccatggc tatcagagga agatatttct tactatgcag 360

aaaaatttgc aaaaacaggc tttactggag gacttaacta ctacaggtgc atagacagga 420

gttgggagc 429

<210> 37934
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-029-Q1-K1-B8

<400> 37934

cccacgcgcc cggttttaac cgaagattcg tttatggccc ccccgatcca atncgtgtag 60

ggctctatag acccctgaca ggcgcggcaa ccctacaggc gaggtcgacg gggtttgctc 120

aaatggaacc cttgcaaggg cagctggtcc caatggagca tcaactgggg gaaaagaaag 180

ctcgggagcg gagggagggt ggctctgact attcggggaa gggtgtctcc aaggctgtga 240

acaatgtgaa ttctgttatt ggacctgctc tgattggcaa ggaccctaca gcacagactg 300

agattgataa cttcatggtt caacaacttg atgggaccaa aaatgagtgg ggatggtgca 360

agcaaaag 368

<210> 37935
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C10

<400> 37935

cccacgcgtc cgcccacgcg tccgcttggt ttcgcctccc gtctcttacc gcacatgcgc 60

gtcgggccgc gtcgacatag ctgcttgccg ccgacacccg cagccgcaat ggccgtcgcc 120

cacgcgccgc cgcgccgggg cgtgctcccc ctcctgctcg tcgccgcgct cgtggcggcg 180

ttgccggcca cctgcgccgc ggccaggagc aagaagtcgt acacggccat cttcagcttc 240

ggggactcgc tctccgacgc cggcaacctc atcgtcaacg gcacgcccaa ggcgctcacc 300

accgcgcgcc cttcctacgg gatga 325

<210> 37936
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A4

<400> 37936

cccacgcgtc cgtgagcttc tgaggaggat cttttgtgat actggctgct ttggttttgg 60

tattcaggag cacattgatc ttggaatcaa gtatgacccg tctactggta tttatggcat 120

ggacttttac gtcgttctgg aacgagctgg ttatcgtgtt gcacgccggc gcaggtgcaa 180

gtcccgcgtt ggcatccagc acagggtgac caaagaagac gccatgaagt ggttccaggt 240

gaagtacgag ggtgtcatcc tcaacaaggc ccaaaacacc tcgtaatcat tgatagtcat 300

caaacgactt gcccttagc actccagttc aagtataatc tgtgtactat gaattctgtg 360

tttggtggat accaaatgca ctgccagttt tgcgtctgtg cccataattc ccatctgatc 420

agactagcag t 431

<210> 37937
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H10

<400> 37937

gcgtccggga ggaggtgagc caccggaagc ggagacttgt gtagtcgacc aaccccgtcg 60

gtccggcgag tccggctgcg gcgcggcgtg ctagatcgct accgaccatg gtggtggagg 120

agatcgccga gggggtgaaa aacctcaccg ttaccggaga tgcggcggct tcaggcggag 180

aggggcagag gaggggcggc ggcggcagca gcaaccgcat ccaggtgtcc aacaccaaga 240

agcccctctt cttctacgtc aacctcgcca agaggtatat gcaacagcac gacgatgtag 300

agctatccgc tcttgggatg gccatagcaa cagttgtgac cgtggcagaa attctgaaga 360

acaatggatt tgccgttgaa aagaaaatta ggacctctac tgttgaaata aacgacgaat 420

caag 424

<210> 37938
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H11

<400> 37938

gctccttcgc ctcgaaccct ctcgcgcttg tcttgctttc actctccagg gccccactcg 60

cacgtcgccg ccgcagccat ggcgatcaca gcgccaactc ccgacatcct cggcgagcgc 120

cagtccggcc aggacgtccg cacgcagaac gtgatggctt gcggggcggt ggccaacatc 180

gtcaaatcct cgctcggccc cgttggtctc gacaagatgc tagtggatga tattggtgat 240

gttacaatca ctaatgatgg agcaaccata cttaagatgt tggaagttga gca 293

<210> 37939
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H12

<400> 37939

gccctgctcc tctgcaggat atggcaattc attttgctac agccaatggc cctactggta 60

tgatagggat tacctgttct caatggagaa ggcattagcc agcattagcc acgaagatga 120

ttcgatcata gagcttgcaa acgaggtgag gaaggtgctc aacagaacaa aggagaccaa 180

gatcactggt gccaatgctt ccctgaaatc acatgcccct cttgtgcacc tgtccgcgct 240

tccagaaggc accgttgtgg actcgagata gcgagagcct tggacgttgg acctctactc 300

ggaatttact tccagctctt gcatgtttgt ggcc 334

<210> 37940
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H3

<400> 37940

cccacgcgtc cgcggacgcg ttggcggact tttttgattc aaaacggata aagagaaatg 60

gagagcttta ccttaatgtg ggctgcaatt ttgccgagat atttggagaa aattctgtag 120

cttctattct tgggtctctt ctagatatct tgcttcttaa gaaagatgtg aagcaaaagt 180

cgcgtttatt acaacctctt ttccagattc tatcgaagct tctttctgat caatgggtct 240

cagatattgg tagtcagtat aacgaccaac aagatacctc atctgaaatc cctgatttat 300

ctaactttgt caaagaagtt caacacttgg tactgctggc cctcaaagat attacagata 360

ccctaccatc gggtcaccat gatgcaatgg tcaacagctc cca 403

<210> 37941
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H4

<400> 37941

cccgcgcgtc cggcaagggt gccgaggatt tctttttttgt ccgtgtaatg tcgataattg 60

ttgttactgt cgttgtgaaa gtgagtcagt gggacttgtt aggttgtctt gttcagatgt 120

aatgcacata gagttgtgga acaccgaaac atgttgtagg gggtggggcg gtagcagagg 180

gtggacagta acagtagcgc gcccagccct ctacggccta ccctttgaaa gccttggttg 240

tagccaatgc agcttgctgt aaagaagtgg catttttttt gtc 283

<210> 37942
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H5

<400> 37942

agccaacctg aatggctctt tagctgttgt tcatggccca actcccagta tggacattgg 60

gattctgatg gactctggta agggtctctg ggtcaaacaa tacatcatac agttcaaaga 120

gtatgccagt tttcaatatg tgcatccatt ggtggtatta cgtgacggaa gggtggtcct 180

atataaagaa gacatgcagc ttttacagat ctatgaccca agaactaaca cactcacaga 240

ttcagtggag gtgtgccatt tttctgcagt tgctttgttt ggaggaaatc tactgagctt 300

atagtatatt tttgtcgctg ggcataattt atggcaaact gcattcttac cgacataagc 360

tgcaaatgta aagcttagga cactagtagc ttagctaata ataggataga attcccaaat 420

ctattttggt aag 433

<210> 37943
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H6

<400> 37943

aggagtcaag gatgaggacc aactttattt gcccaagtac gtgtgtttca agggagatgg 60

tggtctgtac ctgagtgctc gaacagttga aggccacccc tacctgcagt ttgcatcgga 120

agacattggc gacccaagtg tgaggttcat cacctacaac cacaaggtga acggcaaacg 180

ggtggtgcgc ttcaagtcga accatctcgg caagttctgg aggcggagcc ccaactggat 240

ctgggccgac accgacgaca ccagcaccaa caactccgac accctgttcg aggtcatcaa 300

gatcgacgag gatggtgtgt acgcgctccg gaacctcggc aacaaccact tctgccacag 360

gctgacctac gacggctagg agagctgcct gaacgccaca at 402

<210> 37944
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H7

<400> 37944

cgccggccga gggcctgcgc gtggaccgtt gggccggggc caggtacgcg gccgtgcgcg 60

gcttcggggg cttcgtggcg gacgccgacg tcggggagca ggcggcgcgc ctcgaggcca 120

gcctccaggg cacccggtgg gccgccgccg tcaacgacgc gcgcagggcc gacccggcct 180

cgccctacac cgtcgcgcag tacaactcgc ccttcgagtt caccggcagg gtcaacgaga 240

tctggatgct cttcgacgcc ggcgaacccg gccaacgacc ccagtatgtg atgcgattcc 300

aagcgtgctc tcggggcac 319

<210> 37945
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H8

<400> 37945

gagagaaaca gcccaacatc actattggca ttttggtctc cgttgtcatc gtgttcgggg 60

ccgttctctt caagctcctg tttggtggca agaaaccagt ggcacctgtg aaacctgcag 120

ctgaggcgaa gaagcccaag gccgcggaga cggacggtgc tggaagcagt ggtgacaagg 180

atgagaaaga ggatgaaaag gaggagacag gcccacgtcg gaggacccga agggagacat 240

agacctgttt ttgacgtgtt ttagctcttc tggcgtctgc ttattttgag acctcttaat 300

atttgtgagt gtataatagg agcttatgtc acctctgcgg cttcccccgc tgctgatttg 360

tttttaatgg ttagaccagg acccttcacg agcgtaaaaa ataaa 405

<210> 37946
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A1

<400> 37946

atacaattca aggtattgaa gacaagaaat tttctatagc atcaacttct cagctgagcg 60

cctctcagaa tttactgaag caaaggcacc acttagattc caattcacca agcaacatta 120

cttatgaggc ctatgaagaa aagttcggtc catctagtgg ttcttttgca caaaggaatt 180

caaaagtgca gaagaaaact atgaacatgc aaccaacaca gccgacaaat gataatgtca 240

tgaacagaca tcctcaaaca ttgacaagaa gtgcttctta tccttgtgag aacaatgaat 300

ctgaaagaag aggattaggg aaaagaactc tgggggatcc tcaagttaca atgggtactt 360

caatggtagt ggatggctca tttgtatcat ccatgtcctc tgatatctct ggtgaagaaa 420

gtagctttcg acaac 435

<210> 37947
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A10

<400> 37947

cagggtcgtc tggctttcca tgcgctgttt gtagagaaa agcttccgca aagcttttgt 60

gccccacaag cagaaggctc gaaggaagtt ggcaaggagg aggaagatga agtcaccaca 120

gtggcagttg acctcaacaa gagtaccaca agcattgatc atgacctcga cacaattggc 180

ttcaaaccat acaagagatg ttctgtggaa gcgaaggaga atagggtgcc ggctagcgac 240

gaggttggta ccaagaggat tcgtcttgat agtgaagcat caacatgagc gatttctaca 300

tggttaccgc tcggactttc tctgccgcca tgaagtttat gacaaagttg tatttacatc 360

taaactagta taggactta 379

<210> 37948
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A11

<400> 37948

acgcccacgc gtccgcccac tcgtccgaga gcttttaagg agcgagctca gtcagacttg 60

aaggaagctg cagacaaaca ttggagtgat ggtgccttgg aggcagacct gcgacgagct 120

gacttggttg ttaaacgacg tgccatggaa gacgctttca tggcattgaa gtttgttcag 180

gatatccatg acatgatggt gaacagatta tatgagcagc ttccgaagga cggttcatct 240

tctcgtacaa attcaacagg gtttattaca cttgagaaga acgggaaggc tcttgaactg 300

tttcctggtg aagtttctgc tgatcagatt tatgccatag aggaagcata ccagagtatg 360

gcatctgcct tttctgaagc tgatggtatt gactacacag atccttagga gctttgaatg 420

ttgtagcaac 430

<210> 37949
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A12

<400> 37949

ataaccgggc cgacccacgc gtacgcggag ctggtttgac tattgtagcc atatttgtat 60

tgcctgcgag aagcttggcc caaggttata ttattatctg cagaaggccg gcttacatcc 120

attcccaatt gatctaattc gccggatcgg acagcaactt ttggaatctg ttgcattcat 180

gcatcgtctt cagctaattc atactgatct gaaaccagag aacatcctcc tcgtttcttc 240

agattatgtc aagttacctg atcccaagga cggatcattc tcaaggaaac tgccaaaaac 300

aagtgccatt aaattgattg actttggaag tgcagcatac cattaccagg atcgcactta 360

ca 362

<210> 37950
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A2

<400> 37950

gcagccgcgg cgaggtcgtc cgtcggattt tgaagctcag ttattactga aaagataata 60

gcagtaccta tggcttctct ggacgccgtg cgaggagacc tcgccctgct gattctgtac 120

ctgaacaagg ccgaggcgcg ggacaagatc tgccgagcga tccagtacgg gtccaagttc 180

atcagcaacg gcgagccagg gcctgcgcag aacgtcgaca agtccaccag cctggcccgg 240

aaagtgttcc ggctctgtaa gttcgtcaac gacctgcacg ctttgatcag ccctctgcc 300

aaagggac 308

<210> 37951
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G9

<400> 37951

cctgaaggaa gcaggaatcg gagcgatgct taacgagctc agtagcacag tcgtgtttgg 60

aaggccaaag gatgaagaat ttgtccgaag gtggcagctg gcttgtgaag ggaatatagc 120

tcacgttgtg gtgatgccca gtgtcaacat tgacaagcta gactatttcc tgaatgagtt 180

agtggacaaa cgggcgactt ggtaccagga cgggataagc cagccaccct gcattgccag 240

agacgtaggt gttgagaact gtctctgtgg ccttcacaag tagcgagcct tttgctttgc 300

aagtgggttc actcttgagt cgagttaaaa agtgttatgt tgtactgtgt tcattcttga 360

gttgagttaa aaagtgttat gttgtactgt gttcatgcgt tctgcttctg tgtttctcca 420

cagtgt 426

<210> 37952
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F3

<400> 37952

cccacgcgtc cggctcaaga agctcgtcgt ctgctgcaag ctgaccaagg tgaagaactg 60

gggaagctgt cgtccgccac gaagccgaat cccaagccca aggccgcccc gaagaagccc 120

aagaccggcg ctaagaagcc caaggccgct gccaagccca aagctaagac ccccgccaag 180

gcgaagcccg ccacaaagcc caagcccgcc gcgaagccga aagccgtagt gaaaccgaag 240

acacccgcca agcccaaggc caagccagct gccaaggcga agcccaagac cgccggcgct 300

aagccgaagc cacttgctaa gaaggccggc cgccccgcca aggcggcgaa gacgtcggcc 360

aaagacacgc cagggaagaa ggcccctgcc aagaaggccg ctccctcgaa gaaggcggcg 420

accccggtgc ggaaagcgcc gt 442

<210> 37953
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-F4

<400> 37953

gaggaagtcg tgattgctaa gatggacgct actgccaatg acgttcccag tgagtttgag 60

gtgcaaggct acccgacctt gtacttcgtg accccgagcg ggaaggtgac atcctacgac 120

agcggcagga cggcggacga catcgtcgac ttcatcaaga agagcaagga gaccgcaggc 180

gccgtcacca ccaccaccac ccaggcgcca ccggcatccg agaaggcagc cgccgccgag 240

cccgtcaagg acgagctgtg agcatccaag gtgtggacgg ctgtggctgc gtaagcatgg 300

gaggaaaacc tggcgctaac gtgccttcaa cgcctagttt ttgcgggacc agagggagag 360

agagagaggg acggagttag agagagaggg gatctgcgac gtgttntgct ctgcggcggc 420

atgtctgtgt atcccattga 440

<210> 37954
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F5

<400> 37954

ctagtcgtcg cttgaagact gagctactta ttcagatgga tggtttgaca aagacggacg 60

acttggtatt tgtacttgca gctacaaatc ttccctggga attggatgca gccatgctcc 120

gccggcttga gaagcggatt cttgtaccgc ttcctgaagg tgaagcaagg caagcgatgt 180

ttgaggaact tctgccagca actacctcaa agttagaaat cccgtacgac atactagttg 240

aaaagactga aggttactct ggttcagata ttcgtctcgt gtgcaaagaa gctgccatgc 300

aaccactgag acgtctcatg tcagttcttg aagccagtga cgagttggtt ccggaggaag 360

aactgcctga ggttggccct ctgaaacctg atgatattga acttgcatta aggaacacta 420

ggccgtcagc aca 433

<210> 37955
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-F7

<400> 37955

cgctgcttca agaaaccacc gagagcccat tcgcacaggc aggagagaga gcagggagcg 60

agggacagta gagtggggcc ggggagcaaa gatggagggg aaggaggagg acgtgcgcct 120

gggcgccaac aagttctcgg agcggcagcc catcggcacg gcggcgcagg gcgccggggc 180

cggggacgac gacaaggact acaaggagcc cccgccggcg ccgctgttcg agcccgggga 240

gctcaagtcc tggtccttct accgcgcggg catcgccgag ttcgtcgcca ccttcctctt 300

cctctacatc accgtcctca ccgtcatggg cgtctccaag tccacctcca agtgcgccac 360

cgtcggcatc cagggcatcg cctggtcctt cggagggatg atcttcgcgc tcgtctactg 420

caccgncggc atc 433

<210> 37956
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F9

<400> 37956

agtagatcgc cgtcgtcccc ttccgaaatc ttctttcgtg tattcctccc caccgcaaga 60

ggttgctttt ccttccatct acggaggcat tccttccctt cggctttcaa ccacaagaac 120

ttcaacttca acccggcttg gccgccgccg aagaccccat tttggaaaat ccaaatggaa 180

caccctggc ccattaacaa tcagaatccg tttctggggc taacctctta acagggcccc 240

cttggcaaac ccgggcaaca acattgcgct tcggggcgct ccattggccg ttggaaaccc 300

tgtaacgggg agcccccca 319

<210> 37957
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G1

<400> 37957

gaattaccgg gcggacgcgt gggcggacgc gtgggcggac gcgtgggcaa taacacttgg 60

agaacccatt ggtgttgatg atgtcagtag gatgaagtac aaggacaaca tttatgcctc 120

aactccacag gtcgagacat ctgacatctg gattcagcaa gctagagaga tgccacctat 180

gcaggttcct tcatattaca acataccagg tcaagcaaca ccaggtgctt ttgtgccaaa 240

tccagcaaat gcatctttca atgctacagc tcaatcctct catgtgcagt tcccaggctt 300

gtaccatcct cagcaacctc cctctattgt aagtccgcac cccatggtgc atcaacaggt 360

gccatcggcc attggtccca atgttggggt tggggtggca gcttcaggcc cgcaagttgg 420

agcttatcag caaccacagc ttggccatat gaattggaga cccagcttt 469

<210> 37958
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G10

<400> 37958

cacgaccacg ctagcacgca ctctccgtct ctcccttcc ggttccagta gctgcatccg 60

ctgcgccaag tcccaataat cccgcagccc ggcggcatgg cggtgagcaa caacatcacg 120

gcatgcatca acttcctggt gcttctctgc accatcccca tcgccgcgac ggggctgtgg 180

ctggcctcga ggcacggcag cgaggactgc gccaggctgg cccgctggcc cgtcgccgtg 240

ctgggcgcgc tcctcctgct ggtcgcgctg gcgggtttcg cgggcgccta ctggaaccgc 300

aggggcctgc tcgcctgcta cctcttcgcg atggccgccc tcatcacgtt cctcctcgcc 360

ttcctcgtct tcgccttcgc cgtcgcgcac g 391

<210> 37959
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-G11

<400> 37959

ccgggccgac cgacgcgtcc ggaatccgcg aatcacagac gcgtctatct tagcttgctg 60

cgctgcacta ccctgccctg gcaggatatc gtacgtgagc ccggccgagc gagagcgagg 120

gagaggcatg gctgctccga agctcgcgac gctggcgctg gccgtgctcc tggcggcgac 180

cgtggtggct ccccccggccg cggtgcgcgc ggcgatgtcg tgttccaccg tgtacagcac 240

gctgatgccg tgcctgccgt tcgtccagat gggcggggcc atgccgnccc agccgtgctg 300

cggcggcatc cgcagcctgc tgcagcaggc caacaacacc cccgaccggc gcaccatctg 360

cggctgcctc aagaacgtcg ccaacggcgc caacgggagc ggcacctaca 410

<210> 37960
<211> 81
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G12

<400> 37960

cgcgtccgct cactctggag agcacgacaa agtgaatgct gtggagattt ggcttgaaaa 60

taagcatgac gatttgagaa c 81

<210> 37961
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G2

<400> 37961

aggcaatcca aagggttaaa gagctggctg ttatcataga aggaaaaagc cttgaagaga 60

ggagatcact gctagccaag tgcgctgcta caacactctc ttcaaaactt ataggtggtg 120

aaaaagaatt ctttgcttct atggttgtgg atgctgtcct tgccattggc aatgatgaca 180

ggcttaatct tattgggatt aaaaaggttc ctggaggtac catgagagac tctttttgg 240

tgaatggtgt tgcattcaag aagacgtttt catatgcagg atttgagcaa caaccaaaga 300

agtcccttaa tccaaagatt cttttgttaa acattgaact agaattgaaa tctgagaagg 360

aaaatgcaga gatcagattg tctgaccctc tgcaatacca atcaattgtt gatgctgagt 420

ggaacattat ttatgacaaa ctg 443

<210> 37962
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G3

<400> 37962

gcaccggcac agaggccttc tactgctgat agatgtcctg ttaccagaga gactgtactg 60

aagcaagcta atgttgccaa ctcatgttta cctttgacgc cagatagacg cctcaccaaa 120

aaaggtgaca tttccaccct tgagtgccct tctacaggag gaaggtgccc tatcaccaat 180

ggtactgcac tctggtcaag aacaatgccg tactattcaa aaggtgcttt ggtcacagaa 240

gttactcccc agaagacaat aactcccaag gttgttagaa acagcaagct agaaaaccta 300

agctatgcaa aagaaagggt ggaacttcaa gtggatagaa agcaaaagtc aagtcttttt 360

aacctgtcct cgaagaaaac attgacttcc aacgttagag atgaccaagg tcttgaaatg 420

ttcaaaa 427

<210> 37963
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G4

<400> 37963

ggagagccca gttgtggttc tatgcctgtt aggtattctt tgtaattttt tctcctgtgt 60

ctggttctgt tatcatcatt attttcctgg tgtggggcaa tcatgtcaga gagcgagtta 120

gcagtaataa aaccagaggc attgaaaact tatatctggc ttcagtgctt tgatggctcc 180

atacaacaag tggaggaaga agttgccatg ttctgcccta tgatatgtcg ggagataatg 240

aaaaatggga cagggtcatc taagaatcat gctatagttc taccgcaaag agttaatccg 300

gcaagtttga gtttgattct tgattattgt cggtttcatc aggtccctgg gcgctcaaac 360

aaggagcgga agtcattcga tgaaaagttt gtcaggatag acacagaaaa actgtgtaag 420

ttggcttctg catcccttgg tc 442

<210> 37964
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G5

<400> 37964

cctgtcctcg cgtctccctt cccagatcca tcgactcgct cgggccgccc ctcccggggg 60

ccccgttcga aggtgcggca gccggcaggc gagcgatttc attcgacatg aatcccgagt 120

acgactacct tttcaaactt ctgcttattg gtgattctgg tgttgggaaa tcatgcttgc 180

ttctcagatt tgcagacgat tcttatttgg acagctatat cagcacaatt ggggttgatt 240

tcaaaattcg cacagtggag caagatggga agaccataaa acttcaaatt tgggatactg 300

ctgggcaaga gcgcttcagg acaatcacta gcagctacta ccgcggagct catggaatca 360

ttattgtata tgacgtgaca gaccaagaaa gcttcaataa tgtgaagcaa tggttgaacg 420

agatagaccg ttatgc 436

<210> 37965
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G6

<400> 37965

aaagaaaaaa aaaaaaaaaa aaaaaataat taaaaaaaaa aaaaaaaaaa aaaaaaagaa 60

aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa acgccgacca cttaaaagaa cccaacataa cttacatggc 180

cccacaaaac aaaaacattc aaaaagttcc cccaaaatca actaaaatac cccagtagaa 240

aaaacataaa aactcaaaaa cccctaacaa tcacaaaata aacctaccgc aaagaaatcc 300

ccattcaaca aggagcc 317

<210> 37966
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G7

<400> 37966

attgttgtag cagatgactc tggcaaaact gttactattt ctctctggaa tgatcttgcg 60

actacgactg gccaagagct tttggacatg gttgacagtt cgcctgttgt tgcgataaag 120

agcctaaaag tatctgactt ccaaggcgta tctctttcaa ctattggcag aagtactctc 180

gagattaatc ctgacctgcc tgaggctaag aatctgaagt cctggtatga ctctgaaggc 240

aaagatactt cactggcacc aatcagtgca gaagtgggtg ccacacgcgc tggtggtttc 300

aagtccatgt attctgatag agtttttctg tctcacatca ccagtgatcc tgctatgggc 360

caggaaaagc ctgttttctt cagtctgtac gccatcataa gccacatcaa gcctgatcag 420

aatatgtggt accgtgc 437

<210> 37967
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F2

<400> 37967

cccacgcgtc cgcccacgcg tccggctgct gaggcgctcc tgctgcggct tctgcgtgcg 60

aaggttgatg agtttatgag acaatctgat ggtatcaact ggatggctga tgactctcct 120

cctggcggca atgagtatgc gaatgaggtc atcatctacc ttgagacgct cacatcaacg 180

gcacagcaga tccttcccct tcctgtgcta caccgtgtac ttgtggcagt gcttgcccac 240

atctctgaaa ggatcatcga gctcttcttg aacgattcag taaagcggtt caatgccaat 300

gcggtcactg gtatagatac tgatctcaaa atgtttgaga cgtttgcaga gggcatgtct 360

agcctgtttg tggactcagg tcaagaatct gcaaaaaatg aaatgaaggc tgcactagtg 420

gaagcaaggc agctagtgaa tc 442

<210> 37968
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D7

<400> 37968

gccaaccata tccactctcg gcggcgccgt tcatctctcc tctcttcttg cccttgcttg 60

ccccaaccca cacagcctca ctaggggtct accggcggcg gcaacgagat ggtgcagcgc 120

ctcacctacc gaaagcgtca cagctacgcg acaaaatcca atcagacccg ggtcgtgaag 180

accccaggtg ggaagcttgt gtaccaatac accaagaaga gggcgagcgg tcccaagtgc 240

cccgtcaccg ggaagaagat ccaggggatc ccccacttga gacctgccga gtacaagaag 300

tccaggttgt ctaggaacca caggactgtt aaccgtcctt atggtggagt actctctgga 360

attgctgtta gggagagaat tatccgtgct ttcttggttg aggagcagaa gattgtcaag 420

aaggtcctga aaatacagaa a 441

<210> 37969
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D8

<400> 37969

cggacgcgtg ggaaagggct cctagcgatt caagtggtgg cagtccggct tcacctcagg 60

catcatagag aagcccagag actattctgt ctgcccctag gtgcacgaca acaggagcag 120

tgtgttctgg tgatgcaatt agtaagcata gtagtgttcc tcttgttgag aactgcacca 180

ctccgactgt agcagtgtgc acaactttga agcgcgtagc tgagaaagtt gtttcagagc 240

tagttggaag tgaaaggctg gggagcaaca acagtgcgga attgttggag agtatggaaa 300

aggaggatgt ccttgctgaa aatgttcgtt ttggcgggaa tggagttgcg caaggtggcc 360

ttccagaaga gttagaggta tgaacaagtg tacattgtgg aagtcgtcac tgaggcatgg 420

tcttgaact 429

<210> 37970
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D9

<400> 37970

ttcttcggcc tcacgcatct cctcctcctt ctccaatcca attcacaaac acacacgggg 60

aatgaattag cagaacccgg gccacccccc cttcctcgga gtcggagcga gtcgaggaac 120

ggctcgtctg cctctcccgt tctccttcct ctcctcccca gaagatctga tccatcatcg 180

aggactcgcc gggaagaatc aaggatatat agataataaa caaacaaagg ttcctccaga 240

gcccagagga gggaagtcac cggccgtcgg cggggaggag atgtcggacg gcgcgggctc 300

ccggacgggc gtcgctggcg cgctgggcct ctcggtcacc tcgtcggtgg ccatcgtcat 360

ctgcaacaag tacctcatca gcactctagg cttcttcttt gcgacgacgc tgacgagctg 420

gc 422

<210> 37971
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-E1

<400> 37971

cggacgcgtg ggctatagca accggtccat cactttcacg ctcagcttca gcaatggctg 60

cctgcaccat ggcgatctcc tccacggcga tggccggcac ccccatcaag gtgggttcct 120

tcggcgaggg ccgcatcacc atgcgcaaga ccgtgggcaa gcccaaggtg gcggcgtccg 180

gcagcccctg gtacggcccc gaccgcgtca agtacctcgg ccccttctcc ggcgagcccc 240

cgagctacct caccggcgag ttccccggcg actacggctg ggacaccgnc gggctgtccg 300

ccgaccccga gacattcgcc aagaaccgcg agctggaagt gatccactcc cgctgggcca 360

tgctcggcgc gctcggctgc gtcttccccg agctgctctt ccgcaacggc gtcaagttcg 420

gcgaggccgt c 431

<210> 37972
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E10

<400> 37972

cgagtggacg actactggca tcattggctt tatgtatttg cagggggtct tataggtctg 60

acagttgctt cgttttgcta cctacagttt ttcccatatc ctttcgatgg cgatgctttg 120

tggcctcacg catacgcggt ccggttagcc gaggagggga acagcagaaa tgcgaactcg 180

tacagcgtga gaccaaccga gatcgaaaca gtcgatattc ctgggcacgg tgcgatcatc 240

accctaagag agactctaaa cgatgtggag tctggcagtg ccaggagatt gtgagatggg 300

tctgcaggtg tggagattga tgtctcagat accatgggag ttgcttgcat atgtgtacag 360

gtagatctat tggagagctg ttgact 386

<210> 37973
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E11

<400> 37973

gaccgacgcg tccggagacg ttgtgcgcct cttgttacga cacttgatga acagcatagg 60

gaatgatacc atcgtagttt tagtagtcct tcgtggcctt cagtttgtct tcaaagagtt 120

cttgttgcct cttcacatac atgtaaacac tgtaaatacc gttacctgaa taaagcttca 180

gcctgctagg ctacaagcag ggttcact 208

<210> 37974
<211> 306
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-E12

<400> 37974

gtggtggacg cgctccttgc cgagggcctt ttgaagcgcc tcctctgcct gcagcgctgc 60

gagctctgcg gctcgctcgc ggacacggac gaggagggct gcccaaaggc gaaacccgag 120

gacgccaaag ccggtggctt tctcctcgtg ccctgccttc ctctggtgta tctgtggtgg 180

cgtcgccagg gcgacggcgc cgcggacgcg gacacggaag agcggccgtt cgtgagcgct 240

gtggcgcggt tcgcggtgca ngtggaggtg ggcgtggggt tgagcccgcg ggagaagcgt 300

gaggcg 306

<210> 37975
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E2

<400> 37975

cgcacgcgtc gcagcacgcc acacgtaatt tccgaagtct acaacatgtg ccaaacccgg 60

cgcgaaatct gcctcttctt gcggctttcg ttcccgcttc tggccaaatt cctccaaaac 120

ctgacgagct ggatgaccag ctcgagggtc catgccgggt gatccgagca gtgatctgag 180

cccagtcctg gatccaagcg ggaatccata cttgatctcc tacatcagct acgcgatcga 240

tcgatccacc gatagatgct gcggcctcag ccacaatgtg agacatagct gtggatatac 300

ctgctgctat gcgaaatggg catgcataga ggacttctat gagacatact atgatagaga 360

tgatggtcat atagatggtc atataggagg tcttgatgga catggtgatg gtcatggtgc 420

agattatgt 429

<210> 37976
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E4

<400> 37976

cccacgcgtc cgcgtcagcc gaactttctc gacttctcca ggaccgcatc aacgatcagt 60

gggactcgct ccccgagcca gggccggtga tgatctcgcg ctggaactga atccaccagc 120

aatggccggg ccgaggatcg atttccgaca gcaggaaggg tgcagcatgt aaaggggaa 180

cagatgagat catgtttggg ttggtccccc gttgtatatg tagttatgta tcagccagtc 240

ctttgtttgt aaattaccag tatttagaag taataagaaa atgggggttt acgtgtacgt 300

ttcctgtgct ctgtcatctg aagcaataaa actggttagc aagaccggaa gagcgac 357

<210> 37977
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E5

<400> 37977

gcaatatggg gacgtacaga cattcgacat atcctgcaag agccatggaa ttgttacagg 60

gtcttactat gacattagag ctgcacagga cgcagtgaga gcagtccata acaaacctct 120

ggggctgatg aaacttgatg ttcaattttc ccttcctaag gaaaatgttc caaacaaaga 180

tcccaacaat ggaacactgg tggtatctct tattgactct tccatctcca gccatgatct 240

tctccaaaaa tttagtgttt atggcgatgt caaggagatt tacaagtctc ctacaagctg 300

caataagaaa tttgtagaat tctatgatat cagagcagca caagaagcac tgaatgacct 360

caacaagggt gaaatatcat gctcacaaat caaagttgag catagctttt ctggaggagc 420

aggatcttgc ttcgcagagc aa 442

<210> 37978
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-E6

<400> 37978

cccacgcgtc cgggaacagc tagatgagtt tgaactggaa gctaaaatac aaggagcagg 60

gatatctaat gtctgcgtcc aggttgctga aactggtcag agtgagtcac tctactgtaa 120

taactgtaag ctctcgatga gccgattatt aaggtgctgc ccaacatgcc cgtttaagct 180

gtgcctaagt tgctgtcaga agatacgtga aggaaacatg tcggacaaca cccctgaaga 240

taaattcaag aatcggttga ttcaacanga gtctgtccat gaggatggca gtattacttg 300

cccttcgatt gagctgggtg gatgtggtga cgccatgctg aacctaatat attcatctcc 360

a 361

<210> 37979
<211> 90
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E7

<400> 37979

cccacgcgtc cgattcattt gttaagaagt taacgaggta aaggatgtaa atgatgccgg 60

gggctttgct gaatatgaaa gttgaacagt 90

<210> 37980
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E8

<400> 37980

aaatatacac gctcaacata tcaacttcat aacataatca ctcctcctct catacatcca 60

agcttatcca aacgatcaca tcatctacct tcacacactc acatcaacct cacatcaaat 120

ccttcccctt ccttttctac accttctact tgtaacaccc cttccccaca tcacttaaac 180

gatcatcaaa ctcttctaca actatccact aaagctattc aataccaatc ccgtcactgg 240

catatatact aatctcaaaa 260

<210> 37981
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E9

<400> 37981

aataccggcc gaccacgcgt ccgacaggcg tacgtccact cgttcgccca ttctttcggt 60

cgggaacgca gaggcgggag cgacgggaag gtcgggcgag aagacatgag gaagccaaaa 120

ggagaacgag ttcggaaggg agcggatggc aatggctctg gtccagctat tgctggcgct 180

cctaatcgtc tcctgcaccg cgcaatcgcc gtacgcgtcg aaagctccta cgatcagcgc 240

ctcggcgccg gggggctctg tcgcgccacc gacaacggcg gtctcggcgc cgcaggcgtc 300

tgcacagccg ccgacaacag tcgccgctgt ctgggcctca agcctcggcc gtagcaccaa 360

caaaagcagc cttggcgcca catgcctatg ctgcgccgcc aactacagc 409

<210> 37982
<211> 335
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-F1

<400> 37982

gtcctcgtct ttaactccta cctctggtgt ttctccgggg acaaaatcca gatcctgagg 60

ggcgcctaca acgacccgag ctaggacatc gtggagatga agtcggagga ggcctaccgg 120

ctggtgctgc accaggtggt ccgagggctg gagcgcaacg tggaccccgg caagtcgcgg 180

gtgttcttcg tgaccgcttc tccgacgcac acggactgca gagcgtgggg cgacgacgac 240

acggagggca ggagcaactg ttacaaccag acgtcgtcga tcagcgccgn ctcgtcctac 300

cgtggcggca cgagccatga gatgctgcgc gcaac 335

<210> 37983
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F10

<400> 37983

caaattgtat ctcatttaga tctgtctgtt ttttaaactt aaatggagca gtagtatcga 60

cgtattggta cccctgttac tgagtataat tttgttttca tatctatcct tacagacgat 120

tgcactt 127

<210> 37984
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F11

<400> 37984

ccttgctctt cgtcttcgcc ggcgttggct tcttcatggc aacagggaag ctggccggcg 60

gcggctttga cacggtagtg ggcctgacgg cggtggcgct ggcgcacacg ctggtggtgg 120

ccgtcatggt gtcagcgggg ctgcacgtct ccggcggcca catcaacccg gccgtgacgc 180

tgggcctcgc cgccacgggc cgcatcacgc tgttccgctc cgcgctctac gtggccgccc 240

agctgctcgg ctccacgctc gcctgcctcc tcctcgcttt cctcgcagtt gccgacagcg 300

gcgtgcccgt gcacgcgctg ggcgccggcg tcggcgcgct ccggggcgtg ctcatggagg 360

ccgtgctcac cttctcgctg ctcttcgcgg tctacgccac cgtcgtcgac ccgcgccgcg 420

ccgtccgc 428

<210> 37985
<211> 306
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F12

<400> 37985

tgcgtatctg gttttcaatt ggatccatct catcttctct acatagtttt gtttgtgtgg 60

atggttgtag catatgctct tgttgcaata aaaaaaatgt ggcagttgtt tggctggtga 120

ctgcctatta tgagcctgcg gcaataaatg ttcagcaaat tgcggagtaa acattgagag 180

ctccagaaca tggagagaaa gtgtgtattg tatatttgcg ttgttcctgt aaagcatgtt 240

tagtcaaact cgaatattgt ctataacacc gagtaaatct caggcggaaa catgggcgag 300

ctttct 306

<210> 37986
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D6

<400> 37986

cccacgcgtc cggttctaga tcgcgacggt cgccctttt ttttttttt tttttggtgg 60

ttttttttt ttttttccg gcatctttta agactttaga taacagcttc acacattttt 120

caaatccaca aaagaactgg aagtcaaaaa aagaaaagaa tggtactgct gatggacaga 180

atttgtgcaa acctatttcc tgcagcattt acatattaca aagattacaa aaatcaccat 240

acatcaagtt acgctcaaaa aacaatgcat gacacagcta agaaaaaaca aatagagact 300

actaacatct actggatgtc aagctgccaa tgaggtactg tgccggcagg aagaacaatt 360

gaacagatgg tgcgctgaat ccaacctaat gcttgacaga atatccttta cagccaagcc 420

ggcaaccaag acgctgagtt 440

<210> 37987
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C11

<400> 37987

aaaagatctg gcatcacatc cttctacaat gtatcttcgt gtcgcaccag aaaagcaccc 60

agttcgtttt acaaaagccc ctgttaaccc gaaggctaac agggaaaaga tgacacaaat 120

catgtttgaa accttcagtg ttcctgctat gtatggtgct attcaagctg tgctttccct 180

atatgctagt ggccgtacca ctggcatcgt cctggattct ggagaatggt gtcagtcaca 240

ctgtcccaat ctatgaaagc tacgcccttc cacatgccat tcttcgtctc gatcttgctg 300

gcagggacct cactgattcc ctcatgaaga tcctcaccga gaggggctac tcttttacaa 360

acactgccga gcgggaaaat tgtccgtgac atcaatgaaa agcttgcata tgt 413

<210> 37988
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C2

<400> 37988

acgatttctt tgggcgatga cactaggcct gtgataatga tgtgtccatt tgttcgatgc 60

gtggcctctg aacctcggaa ccggttgata gttgttgttt tcctagctgt gtcgggtcgg 120

gtgcagcatg ctctaattgt tgattacctc aagaat 156

<210> 37989
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C3

<400> 37989

ctgatccatc catctccatc cccatcccgt tactctcgtg cacgccgccg cttcaagtcc 60

tggcgagccg catcgcatcg catgcgtgtg ctgtccgacc gccatcttcg cagccggctg 120

gcctagctac ctcaccttac cttacgcagg cacactgcac acacacccat ggtggtggcg 180

gcgatgcggc ggccgtgcgc tgtgccagcg ctgctggtgg cggcggcgac agcgacgcta 240

gtgcttctgc tgctgctgtc accgtcgagc gcg 273

<210> 37990
<211> 442
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C4

<400> 37990

agcacactta tgttgaaact gaaaatgtgt tttatgttta tcaacctatt gaaggattag 60

atgttctact tatcacaaac aagcagagca atattcttga agatctggac acattgaggc 120

tcctctccaa gcttgtgcct gaatactccc cttccttgga tgaggacggt atttgtaaaa 180

cagcatttga gattatattt gctttcgatg aagccatctc tcttgggaac aaggaaaatg 240

tgacagtgca acaagttaaa caatattgtg agatggagag ccatgaagag aaggcacaca 300

agctgatgat gcaagccaaa atcaacgaaa ccaaggatct catgaagaag agggctaatg 360

aacttgacaa aatgaggatg gaaagaggca agcttgacaa aggaggatac tcatcaatat 420

ctggtccacg cgtgattgaa aa 442

<210> 37991
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C6

<400> 37991

cccacgcgtc cggcaaaggt cattggtgat tttcaggcac tgatagcttt tccactgtgg 60

ccgtgcctga tcctttctat gttgtatatg ttctggtttt ctgctacact ccatctcttc 120

agctctggtc aagttgtccg aaatgattgc aatactgatt gttgttcata tgatctgaag 180

ctgggaaaag taaattgtga caactgctgt gggtacagca tccattacac ccctcatatc 240

agcattgcca ttctatttca cttatttggt tgctactggg cgactcaatt cattctcgca 300

tgctcttcaa ctgtggttgc gggatcagtt gcttcatact actgggcccc tggtgaaata 360

tcacatgata taccatttct cactgtagtc tcttcactga agcgactgat gc 412

<210> 37992
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C7

<400> 37992

gggcaagctt actagggact ttggttttgt tattgatttg ataagcatgt tgatggcggt 60

gggtcattac tcgatgatcg tttggcttcg tggtatggcg tttcatctgg ttgatgcagt 120

tctcttatgg aacttgcgtg ctcttatagt ttccttttg aagaggatta aaacttacat 180

caaattacgg aaggcactta gttcactcga cggagcactt ccagatgcta cttatgatga 240

aatttgtgca tatgatgatg agtgtgccat ctgcagggga ccgatgggtc gagctaaaaa 300

gttgtcctgc aaccatctat ttcatctagc ttgtttacga tcatggttgg atcaaggatt 360

aatggaaggt tactcctgcc caacttgtcg gagaccgctc gtattgtcat ctgaagggca 420

aacaaggtct ccgatt 436

<210> 37993
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C8

<400> 37993

attcccggtc gaccacgcgt cgaccgtcgt cgcgcccgcc gtcagatcta gctatctggc 60

accactgcgt tgcgcgagtg cacaataacc atgtgatccg gatgattcac ggtgctcttt 120

tgtagcccat tgtatccctc taccgggtga ccggagctag actaacaagt cttcggcgcc 180

accggttgcc gatttgggtt ggcggtacaa ggagccaccg tgctaacctc agtttgtatg 240

cttgcttttt cttgttcgca cttcgtgtct tcagctttcc ttcattttgt tcttgtccac 300

tcggttttcg tatggatctt tgattgtctg aggctctgga tctatgaact aggagaaatg 360

cgataatata ttgcaaatga tttagagttt caggcttaat cgcgagcttg gtatatgatt 420

aatttat 427

<210> 37994
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C9

<400> 37994

agaatgttct cttggatggc agcccagctt cacttcttaa gatctgcgat tttggctatg 60

ccgagtcatc agtgttgcat tcaagaccca aatcagcagt aggaacgcca gcatatattg 120

cacctgaggt gctatcccgt cgcgagtatg atggaaagct tgcagacgta tggtcctgtg 180

gggtgactct ttacgtcatg cttgtgggag catacccatt tgaagaccca gatgacccca 240

agaatatacg caagaccatt cagcaaataa tgcaagtgca atacaagata ccagatcatg 300

tccacatatc tacggaatgc cagcaactta ttgcccgtat ctttgttgcc aatccaatga 360

ggagaatcac aatgaaggaa ataaagagcc atccatggtt tttgaagaac ctaccacggg 420

aactcacgga gactgcacaa 440

<210> 37995
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D1

<400> 37995

ctccgctagc cgccgccgcc gctcgtcttt ttgttaggtg ccgggaccga ggatttgggc 60

gagttctagg tagagaatcg gttttacttg tctcagcccg gggtctgctg cgtctggtgg 120

tggtgaaggg gagaaattcg tgagatctgt tccggatcag gcgtgcgagc tcgggaatca 180

ggggtttcac acatagcttc gtcgatttga atttgatgta ctaatggagt ctaagggtgg 240

caaaaagtct agcagtagtc gttctatgat gtatgaagct ccccttggct acagcattga 300

ggacgttcga cctgccggaa gcgtgaaaaa attccagtct ggtgcttact ccaactgcgc 360

gaaagaacca ttctgatatt ccttttggct tcctcaatct agtagtttaa gatttctttt 420

ctgacacttt gattc 435

<210> 37996
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D10

<400> 37996

cggacgcgtg ggcggactcg tgggcggatt ctttggtggc cacctgcgtt ggcttccagg 60

aggcatccgt cagacaccgt ggccgcggct gcgcgacaca gcctcacgcc cagatcgagc 120

gggcgagccc aagctcccat ccggcgatcc ccgactcccc gtcgtccgtc cgcccgaggc 180

ccgagctcgt cgcgccgctg gacggaccac ggacgggcga gctcggtcag ctccctgctc 240

accgcgccgc cgctggacgg accacggacg ggcgccgctc ggtcacctcg ctccctgctc 300

accgcgccgc gtccgtccga gctctcaccg gtcaccgcgc tccctgctcc caggtgccag 360

ccaccgagcc gggcagctga ccgtaccgcg ccgtcgtcag accgagcgcc gtccgagc 418

<210> 37997
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D11

<400> 37997

ctttcttgcg tttgggtgaa gccgtcactt tcttcgggca cttccccttg acagccgagg 60

cagtgaagaa tgttctcacc ggtcatgcct caaaggatgt gctaatgagc atcgtccatg 120

cgatgctggg ttggcttatt gctgcaccaa ttgtactggt cgtgctgtac gccgtttcgt 180

tcccttgttt caaggtcctg gtcaacaggt ttggtggtat tccttcgagc cccaggaccc 240

caatcaaagc ggtgtagcca gtgcctggcc ggatcctctg cagttacatc cgtggacata 300

gctgcagatg tgtcgctgac atccggggcc ggccgtggcg tggccccaaa cgtcagtgac 360

tcgacgtaat tgcagaggaa acggtttcag ccagtgaggc atgctgaatg cccctggaat 420

tgtgtgc 427

<210> 37998
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D12

<400> 37998

aaacgctcac aaaaaccctc gctccccaca ttccttcgcc gcccacgccg ccgcctgtac 60

gagcggcgtc aagatgagtc ggcaccctga agtgaagtgg gctcagagga tcgacaaggt 120

ttacatcact gtacagttac ctgatgccaa ggacgctaag gtcaatttgg aaccagatgg 180

tgtcttcaca ttctctggca gtgttggtac aaacttatat gaattgaaac tagatctgaa 240

tgacaaagta aacgttgagg ctagcaaaat aagtgtgggt gtcaggtcca tattctgtat 300

tgtagaaaaa gctgaggcca aatggtggaa gaaacttgtt cgagatgatc aaagggcacc 360

tcactttgtg aaaagtgatt gggacaaatg ggttgacgaa gatgatgatg gtgctgatgt 420

caacttggga tggatggac 439

<210> 37999
<211> 334
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-D3

<400> 37999

gcgcaaggcc gatccgaggg tggactgtgt tggtgccggc catggtgatg atgatgcggt 60

ggtgcctcgg cggtggcctg ctgccggtgg cggtcatgct ctgcctcaac gtggtggcgg 120

cggtcatggt atcgctcgtc aaggtggcca tggacggcgg catgaaaccg ctcgtgatcg 180

tcaccctgca gcagctcacc gncgccgtct tcctcgcgcc aatcgcattc ttcaaggaga 240

ggaagtcgag gccaaagctg acgctggaga tcttcgccta catcttcgtc agtgcggcgc 300

tcggggcagc tcttcgtcag tacatgatct tcgt 334

<210> 38000
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-D4

<400> 38000

cccacgcgtc cgcggacgcg tgggttcctc tctcaccaag ccaacagcca aatccaatgc 60

ggggctactc tctttattcg tgccgctcgc cgccgccgcc accgcctgag ggcaagaagc 120

gagcgagcgc accgcggatc tccctcccgg ccccgccgcg cgcaccggtg aagacgacga 180

gcccctcgtg aatggtggga gcccgcgcga cgtccgtcgc ctcgcagccg cagccggagg 240

aggcctcctt ccgcggcttc ggttactgca tgcagggctg gtaccaccgc tgcatcggtc 300

tcgacccctg aaccccgccg ncacttgctt ctttgatttg atttcattcg gttcgttcgg 360

tgcccctccc gtcctggatc tgttgcgcga gagcgcggca gcgcgcgaga ttcgcccccc 420

tctcttctc 429

<210> 38001
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D5

<400> 38001

acaccatcta tgcagtttcc atcacaattt ttatagtgct tggatttatg ctcattgcgg 60

ggatctggca atacgatttc tctcccttca tggttcttat cattgccatt ctcaatgacg 120

gtactatcat gaccatctct aaggatagag ttaagccatc tccgttgccc gacagttgga 180

agctgaagga gatctttgct acgggcatcg tgcttggaag ctaccttgct ctgatgactg 240

tcattttctt ctgggctatg cacaagaccg atttcttctc ggacaaattc ggtgtgaggt 300

cgatcaagga cagcgagcat gagatgatgt ccgccctgta ccttcaagtg agtatcgtga 360

gccaggctct gatcttcgtc acccgttccc gtaacttgtc cttcgtggag cgccctggtc 420

tgctccttgt caccgcgttc c 441

<210> 38002
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C10

<400> 38002

gcgtccgacc acgcgtccgc atctttcttc tttggctaca tttccaacat ctgctataca 60

ttctactgca agttattata aatacatgcc ggacccaaaa cagcattatg aacgcccaca 120

tacattgcac ccaaggtgct atcacctccc gactatgata caaagcttcc atacaaatga 180

ccctgtcttg agactcttca catcatgctt ataacatcat acccatttta atacccagct 240

aaccccacta atatacacat caccattcac caaataatgc aagagcaata caagatacca 300

caacatgtgc acatatcta 319

<210> 38003
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-A4

<400> 38003

gctgtgcatc cacttctcgg tggagttcct tgactcgctg agcccggagc agtgcaaggc 60

cctggatgct gtgctcccgc ccaagccggt gtcgcagtac accgacatgg agctggacga 120

gtgcgaggag acgatgccct atgacgtgaa catcgaagcg gagatgcgga ggcggcagca 180

gcagcaccag gaggcctacg acgaggatga ggacatgccg ggcggcgcgc agagggtgca 240

gtgcgcccag cagtaggcag cagcttggta gcagtgataa aatattcgac ggcggcggaa 300

aaatttgtgc gactactgtt aggtccaacc gtccaagttt acacgcgcgt attaatgtga 360

tgaccatact tctctt 376

<210> 38004
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-A6

<400> 38004

tggtattcct agagaaagct tcagggtcat tgtgaatgcc caggaacttg gttttgaatg 60

cactgaaact ccaagaactg atagatcaat tctaaggaac ttggagcttg gtctggcagc 120

actaggtggc gaaaaaggag cagcgtatga ccgaatcgtt cttaacgcgg ctatggctga 180

ccacttacta ggctgcagcg gagctgagga tatcgacgct gcacttgacc gggcgaggga 240

agccattggt agcggtgaag ctctgagaag gctcatgagt tacataaaga tctcgcacaa 300

agtgtcctag tgttgacccg tgagtctgtg accatgtact gactgtacaa ttttggcgtg 360

agtcacgact ggatatcttc ttcgcgttgt ctgagtgcct ttcccactca atgttacana 420

gccaccatga aaaag 435

<210> 38005
<211> 404

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-A7

<400> 38005

cccacgcgtc cgctcaccac ctctcctctt agcttctccc cacctttggt caggcgggct 60

gaggcaaagg gggcggccaa caaggacgag cgatggcgac caaggtcatc tgcttccttg 120

tgctcgcatc cctgctcctc gccgtcgcct ttcccgtgtc tgctctgcgg cagcaggtga 180

agaaaggcgg cggcggaagc ggaagcggaa gcagtgttag cggaagcgga agcggcaacc 240

tgaatccctg ggagtgctcg cccaagtgcg ggtcgcggtg ctccaagacg cagtacaaga 300

aggcctgcct caccttatgt aacaagtgct gcgccaagtg cctctgcgtg ccaccggggt 360

tctacggcaa caagggcgcc tgcccctgct acaacaactg gaaa 404

<210> 38006
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-A8

<400> 38006

cggacgcgtg gggtgattga gatcttttgt atgcgctctg ggactgttcg gtgtcagggg 60

gggcatcatt atgtcatctg aagcgacatg gccagcaaaa gcttgatttt caccattagt 120

agctctgtaa attattcgga tggaatgtat cgaaatgtgc atgtggtcca actgcatttt 180

cctgttcctt ttctgtggcg tctttttttgg cagaacgcga aatgcggcgc gcgtagcgcc 240

accgattgta gagttgctat tcctactgcc ggagtactcc atgtgtgttg gatatcttgt 300

tggcatatta aataaatgct tggac 325

<210> 38007
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-A9

<400> 38007

gaagggaaag aagaagaacc agtagctctg atacgcattc gaactgattt cgatgtcagc 60

gtgcctaaac cttggaaact tgtttgactc agagcaggag ttcaaaagag aaacaaggtt 120

tacatcaaaa tgtcccccca aagaaattgt ccgcaagatc gaggaagctg caaaacctct 180

aggatttgat gttcagaaga aaaattacaa gttgaggctc gaaaaggtaa aggcagggag 240

gaagggaaac ctcaacgttg ctactgagat actgcaagtt gcgccctctc tccacatggt 300

agaagtccga aaagcaaagg gtgacactct ggaatttcat aagttctaca agaacctttc 360

caagaccttg aaagacgtcg tctggaaatc cgacgatctt caaacgcaac atgc 414

<210> 38008
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B1

<400> 38008

gcgcgccgta gagccataag gcatctgagt tgctccatag tagtacatgc caccatatga 60

cggggagcgg tgccggacct aaagccaggc agcggattcc tactgagttc agggaagtgc 120

agaacgactg tagtacctcc gtagcgtatg ccaagtctct ggaacctgaa acagtgggtt 180

gagacttata atggtaagca tgcagcacat tgcacacgct tgcttgctac tctcctaaga 240

cttaactttg ttaccggagt agctgtcgag actatggaca tatatactca tatgtacatg 300

cgaacagtca cctatggaca tcgacataga acatggtcat gctgttgtag acaagcaatg 360

gagccatgca ctgacagta 379

<210> 38009
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B10

<400> 38009

gccgcgcgtg cttccactcg tcctggagct tatagggatg cgtgcttgat ccgatccggg 60

gagggcacac cagctttgag cgactacgat cgaatggatg gccgccaatg gcgagaagaa 120

gatgataacc ctgaaaagct ccgatggcga ggagttcgat gaggaagagg ccgaggctat 180

ggagtcggag accatccgcc acatgatcga ggatgactgc gccgacaacg gcatccgtct 240

ttctaacgtt aactacgaga tcctatgcaa ggtaatcgaa tcctgctgca tgcacgtaca 300

<210> 38010
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B11

<400> 38010

cgcctcccgg ttcaaccaaa tccctctcgt cttatcccca ccagcgcaaa gccgccctag 60

cgggctgtcg tgagaagcaa tggcgggccg tggcaaggcg attggcgctg gtgccgcgaa 120

gaaggcgacg tcaaggagct ccaaggctgg gctgcagttt cccgtcggca ggatcgctcg 180

gttcctcaag gccggcaagt acgccgagcg cgtgggcgcc ggcgcccctg tctacctcgc 240

cgctgtcctc gagtacctcg ccgctgaggt cctggagctt gctgggaacg cagcgaggga 300

taacaagaag acccgcatcg tgccgcgtca catccagctc gccgtgcgca acgacgagga 360

gctgaccaag ctgcttggtg gtgccaccat cgcgagcggc ggcgttatgc ccaacatcca 420

ccagcac 427

<210> 38011
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-B12

<400> 38011

aaatgtactt cgctgacaaa taatcatggt tcctaatttt aatctccaaa tatgtgtagg 60

aagtggatga cccatggcag gttgatatgt cggaattatg tctaagtgaa ggcctctctc 120

gtaacatgcc agacaatggt gcagaaaatg gcaccgaggg aggaggctct agagttaaat 180

atgctgtgat ggatgttccc atcaccttac cttcgttgaa accagctttt gacaagccta 240

accccaaaca aggcattggt atgctgtcat ggagcagcga cagccactat ttcttcacca 300

ggaatgacaa catgccaact gttctttgga tatgggatat atgccgnctt gagcttgccg 360

ctgtgctcgt gcagaaagat ccaatccgtg ctgcagcatg ggaccctacc tgcacacgcc 420

ttgtttatgc 430

<210> 38012
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B2

<400> 38012

cccacgcgtc cgcaagaaca actccaactt tcatctctca ctacggcaac actttgcgag 60

ctgagccatc aaagctcggg gcggatggcg gggcggcggc agatcaagaa ggagtgggtg 120

caggcggcgg cggacgcggc gtcgtggtgc gtggcgctgt cgctggtggc gatgctggtg 180

gtgctgtgca cgctgggcgc cggggaaggc ggcggcggcg cgccggtggt ggtggtgcgc 240

ggcgcggcgc tgtcggcgcg gccgtgcgag gagatctacg tggtggcgga gggcgagacg 300

ctgcacagca tcagcgacaa gtgcggcgac cctctcatcc tggagcggaa cccgcacgtg 360

cacgacccgg acgacgtctt ccccggcctc gtcatccgga tcacaccgtc caagcccagg 420

tagatcgatg gcgatccatc ggtc 444

<210> 38013
<211> 300
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-B3

<400> 38013

gaactcgaag cttgcgttct tgtagtagat gtcttcagca agcggtggta gagcgagagg 60

tcgagaagat gaagagcagc actctgttgg cgatcctagt tctccaggcc cttctggtct 120

ctgcggccgt ggccaaagga cctgcagggc cgacgacgaa gaagcagtgc tggtgcggcg 180

agtgcaccag ctggtcgggc gtgtggacct gcgacgacct nctcaccaag tgcgccgnca 240

cctgcaagaa ctgcgtcccc gtgtccacgg acaaggggggc catcaagtac aggtgccgcg 300

<210> 38014
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B5

<400> 38014

ctcactctcc gctggtcgct cactcttgct tctccaccct tcactcagtc ttagtgtctg 60

attagctcta ggctctagct agccgcgcca ctccttcgtg tagccatcag ccttctcatc 120

gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcggccg aggaagcgcc 180

cgtggtggag accccgccgc cggccgtcgt gcccgaggag tctgcccccg ccgaggccga 240

ggccgaagcc gaggctgctg ctcctgctga tcccgaggag cttcccgcgg ccgagcagca 300

ggcagccgcc gaagcggagg ccgcggctcc tgctggtgcc gaggagcccg tcgcggccga 360

accggcc 367

<210> 38015
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B6

<400> 38015

cccacgcgtc cgcggacgcg tgggcttgtt cgtcagccct cagctatcga cactacactg 60

gtatttttgg ccccttgttg gggagagtcc agttcctacg tgacgacgac cacccccagt 120

tcggcgtaga tgaaacacaa actagcagaa tgcagattgt taggattttt ttttttcagg 180

cggcggggtg gagccattca ttgtcatggt gacaggactc ataatagaaa tacaggtaac 240

atgtgtatct ccgtc 255

<210> 38016
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-B7

<400> 38016

gatcagaaag aaagaagcac gcgcatctct cacccgagca gcacaaggaa gcacgcactg 60

ccccacactt gccagcccgc tgcactgcac acacgccctc ccactcgctc cccggtctag 120

cctcgtccca atcccacatc gtctccgaaa tctctccatc taccggcggc gcaagcccga 180

ccgcgctgcc tctccttctc tctccctctc cccagtctcc gcgcgaagtt ctcttctctc 240

gcgtgctcgc atatagtcgc atcgttaggg cgcgtactgg gagagggagg ccttcgctac 300

ctccgtggca gcgacagacg accatgaagg cgctggtggt gacggtgctt ctcctnctct 360

cttccaccct cgccgcgtca cagtggtgcg tgtgcaagca ggacgcgtct caggccgcgc 420

tgcagaagac gatcgactac gcct 444

<210> 38017
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B9

<400> 38017

cgggccgacc gacgcgtccg gcatgagcgg cttcgatttc tcatggttct tagttgaaag 60

cctggctcat ccttgcatgg gtgagcaccg tggctgggaa cctcaccctc ctaggctctg 120

cggcgaatct gattgtctgc gagcaggcca ggcgggccca gttcttcggc tacaacctca 180

ccttctggag ccacctccga ttcggggtcc cgtcgaccat catcgtcacg gcgattggtt 240

tgctcatcgt catcagttac tgaaacagct gaaggcagaa gagcgtagtg taagagaagc 300

agaatggata aaaatccttc caataagaag tacatgtaaa ttaggcttgc cctataactc 360

aagtgtgtat cggtacgtta tgtctccgtc tgtgctcttg ctcgtgagca agcagcacat 420

ggctgaccgt gtagc 435

<210> 38018
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C1

<400> 38018

cccacgcgtc cggttgagct gctttcatgt gtaccagtgt caaagacatt tgcaaagatg 60

gcggcatatt caagaagatc cttaaagagg gagagaaatg ggagaaccca aaggatcctg 120

atgaagtact tgtgaaatat gaggcccgtc tggaagatgg tactgttgta tccaagtctg 180

aggggttga gtttactgtg aaagatggct acttttgtcc tgccctggcc aaagctgtca 240

aaaccatgaa aaaggcagag aaggtgctcc ttacagtaaa gccacaatat ggatttggtg 300

agaagggtag accagcagct ggagaagaag gtgctgtgcc gtcaaatgct tcgctgctca 360

ttgaccttga gttgatttca tggaagactg tcacagaaat tggggatgat aagaaaa 417

<210> 38019
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-H10

<400> 38019

aaacctttc taaggaatta gaatcagatc taacagaggc cctgttcgtc caaacaagca 60

gaaaggcaaa acacaagttc atgactgagt cgatttcaaa caccactgca acaaatgaac 120

atcttagaca cttggctatg gaccgtaggt ctacaagaga tgaatgc 167

<210> 38020
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-H11

<400> 38020

cccacgcgtc cgggttgctc cagctgagtt ttcatcatct tccgcttcag acatcgataa 60

tgttaaataa ccagagcaca gttgctaagg ctgtttctgc aagaggtgta tactctcctc 120

agattgctag caattccata tctcggaaca atcatcattt gatgggattg ctttcttatg 180

cagaggacac aaataattca tttgagggaa ccagaaaatc acaaacttca ttttcagctt 240

atctttctgg cattgggaag aatcaggtgg atgaagttgc tcttgtaagg aaagtacttg 300

atttcaagtt tcataatgtc aaaggattgc tgcaactgat tcgtcattcg ttggagtcta 360

tcaaccatga nagtgggtaa tgatctacca agtataggta tcttggnaaa agagataatg 420

atgggaaggg tgctttggca actgtgctat aca 453

<210> 38021
<211> 415

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-H12

<400> 38021

cccacgcgtc cgcttccgtg aaacggttct tgagaagtcc tgccgtactg tcatgagcaa 60

gtctcccagc aagcacaacc gtctgtacat ggaagcgcgc cccttggagg agggtctcgc 120

tgaggccatc gatgacggcc gtattggccc acgtgatgat ccgaaggtgc gctcccagat 180

cctctctcag gagtttgggt gggacaagga cctggccagg aagatttggt gttttggacc 240

tgagaccact ggcccgaaca tggttgtcga tatgtgtaag ggagtgcagt atctcaatga 300

aatcaaggat tctgttgtgg ccggtttcca gtgggcatcg aaggatggtg cacttgctga 360

ngagaacatg cgtggaattg ctttgaggta tgtgatgtcg tcttcatgct gatgc 415

<210> 38022
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-H2

<400> 38022

aacctttggg ttgatttatg tgcttgtccg gactagagag tagtatactg agcatcccac 60

ttcctgtgcc cttagcatca tagaatcgcc ggaatagtag ttttgcgaag acggttaagg 120

ttgattgtag gtgctagaag gaagattgag gtcggggcca tagaacttcc cgtcgcaaac 180

ctcgaacggt gtccgttctt ttcgtacttc ccccgttcgc tgagccgagt ttcctgctct 240

cgctacgtcc gagttttgcg gaggcttacg ccaaacctac ctactaaacg ccctctcttc 300

tcttctcttc tccgctccct cgtcttttcg tcgactccac ccactctcag taggccaacg 360

gtccgctaga cctggcagcg gtccgcaacc catagaatat cacgaagagc gaagatctaa 420

gctacagtcc cggcacagaa cccgtggaca tccgcctgag cacca 465

<210> 38023
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-H3

<400> 38023

ctttgggctg atttatgtgc ttgcagtgac tcctccccga acgtcaggtc ctcacgcatg 60

ttaaacgata cacgtcgtac gtgcgcagct ctatttaggc ggcggcgtgt cttaatgatg 120

tcatctagac ctctctcgct atagtcttac atgatgatgc acttcgtgat cgctaccaat 180

ttacggtgta taagttgctc gaattgttca agattagatt tctttatttg ctgatgctcg 240

gtgaagttca agaagttcga agtatttaag ggtaccattc tgcatttagt gttcgggtat 300

taactgctta agagttttcc tcattttcgg ggtgctggct tacttaaggg ttttactatg 360

<210> 38024
<211> 494
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-H5

<400> 38024

ctttgggctg atttatgtgc ttggatgtat gtattcagtg ctgctattga cttacagctt 60

gacacgcgct ctaagcgccg cgcgggtgtg tctctgttgt tcattttcgc ttcgtagcgc 120

cgtgcagcac acggcctcat gattcatatg catcgtcgtc atcatcgtgc gtcaatccca 180

actcgacggt agcttatagt cagtcagtat actattcttc gcaagcaacg cgtccactca 240

cacgcgtatt gattggaatt ggaggtgcgt gcatgtcgac tcgttatgaa gttcatcagc 300

agccaaacgc aatgcaattc gtaggtaacc aagtagggtg tcgtcacaca cagtgcaacc 360

aaccgcgtgc acgggcacgg cggcctgacc actggacgcg caactttcgc atgcggttgg 420

gtttgcgtta aatgcatggc gattcgcgta ggtctcgcgc gctgacgacg ccgcatctcg 480

acaacgacac aact 494

<210> 38025
<211> 496
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-H6

<400> 38025

ttgggctgag atatatgtgc ttgctcgcag ctatcattta gaagttggta tacaccgaat 60

tcaaaatctt cgttaaaagt tagagctagg tcatcggcct aaagatcacc cccgccggga 120

acccagttca tagcacagag tgcgaataag ccaaggaacc ccccgaggag gtcggcgaag 180

ccgccgacgc ctgcccggtc atccccgacg acgggagccc taagggcccc ggatacgccg 240

aacctgtcat cgccgaagtc gtctagaagg tctccgaacc cgccggctac gattcgacgg 300

gatggttctc aaggaccgat acggtcattg agaggggcgt acatatcttc agtagtggga 360

aggataatgg cctccctaag aagcctgtct taaggctagg taatattgcg cccaccaagg 420

gtcccgatat tctcggcgga gaagattaga cttgtattgt ctccgaagag tacccccnac 480

tacgcggaga cactat 496

<210> 38026
<211> 498
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-H7

<400> 38026

aaccattggg ttgatttatg tgcttgtgta ggcgcttcaa gacgagtcta atgagcctag 60

aaactctgcg cggaataaaa gggcaggggt ctgcccgacc tcgacccgta gcatgaacat 120

gaattgcgaa agtgcggttc actgacttcc cagattcctg gagcccgaag tcagaggcgc 180

tagaaaagcc attataggga caatcggtcc gcggtagtta agtgcctaca gtgatgccgt 240

cccccgactt cctgacgctg gtctccttca ctaccgcgaa gtagaaccta ttaagcgccg 300

gaccgcctat ttattaacag ggaatgcgag tcgggaccag attgctgcga gataggccag 360

ccccatttca tcgacgattg tgttgtgaca gcaacctaat tcagcatgag aggaattgcc 420

gacctatata accggctact gtgtccggcc gaaaagttag cggtgtgaag tcattgcgcg 480

ttcgaccacg atcgaatg 498

<210> 38027
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-H8

<400> 38027

gatttatgtg cttgtttggg atctgctacg gaggtgaata ggtccgagat tcctgatgat 60

tcaattgcga ctgggggtcg tcccgatttt gattctgatg gtggtctgga catgtttctg 120

gagtaggcgt tggtcggaag gactaggcgt tgtaagagtc cgatgttaga ggtatctcgt 180

aagtcgaaga gacggtctga gctcgattag tagatgtcgt cactcgcaga ggttagtgtt 240

agttcgtgct ctcgcgtagt ggtcgcgcat acaccggtgt cgacggcgca ttgctcagca 300

tggacgcgtc catatgggta gtaaccacgt tgtcgagaga gaggcttttc taatgttatc 360

gatgaccccg tcctatattg caccgcatcc acgctgaacg gatacattac cattactgac 420

gtctgacctg gtctagcccg gtagatagaa ctatcatctc 460

<210> 38028
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-H9

<400> 38028

aaaaagtcca ggagtttcag cacaagcggt tttatggatc tgacatgtcc ttaaaaggac 60

gagttagtga acttggaaaa aaggaagacg tgagtgaaga tgggggtgat gagtatcctc 120

caccagattc agatcatgaa tcaacagaat ctgatgagga cttctatatg tgtcagattt 180

gcaacactga agaggagaaa aactcattgt tttgttgctg tatttgtgct tcacgggttc 240

accctggttg cctcactcca ccttcgactg acatcgtgaa tgatgattgg tcatgttatg 300

gttgcaagga gaaagttaaa agctacttaa aagaaagaga tgcttacttg actgaactct 360

caaagaggta tgatgctgca ttggacagaa agtcaaaaat tcttgacata atcccgtcct 420

tggatttacc tagtaatcct ttagatgata tca 453

<210> 38029
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-A10

<400> 38029

cccacgcgtc cgcggacgcg tggggaaaat tacccaggcc aacctgctgc agccgcagag 60

ttggctggag aagacacagg atttaacatt taccatcagg atacaagtga actaaacagc 120

agtcagatgc atacaggtgc aggcattacc gaagatatca atgaagattc ccagcgtttt 180

gagttacggg aggacaatca ggtggattca acaccgaaag actatttgtt caatggtggt 240

ggtttttgta tggagggcga gggcgagggc gatgaacaag aaccagcgtg tgatcaatct 300

ggtgcagaag tagaacctgg accaagtggt ccatgtggcg ccatggatga agtttcaaag 360

agtgcaagca tatcgacggc tatggagtgt accgagaatg caagaatgga ggcacgtggt 420

gcatcttcgt cgc 433

<210> 38030
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-A11

<400> 38030

cggacgcgtg ggcggacgcg tgggctgaat agctgtctat gccacttgct gctgtgaagg 60

cggccgtggg acgttcatct ttcctggcgc acagccagcc ccccacagga gcttctctga 120

ggaagttgct gcacttaacc gctactttgg cggcctgaaa tctggtggta atgcttatgt 180

gattggagat ccagcaagac ctggacagaa gtggcacgtc ttctacgcca ctgagtaccc 240

agagcaacca atggttaacc ttgaaatgtg catgactggt ctggacaaga agaaagcttc 300

tgtctttttc aagactaatg ctgatgggaa cacaacatgt gccaaggaaa tgacaaagct 360

ctctggcatc tctgaaatca tccccgagat ggagatctgc gattttgact ttgaaccctg 420

tggctactcc atgaatg 437

<210> 38031
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-H1

<400> 38031

tttgggctga tttatgtgct tgtacgggct tgactaaaag aatcatatga acctccgtgg 60

cctacttacg tttcgtaaac ctgggaggag gaagttctat tactacttta acattcgatt 120

cgtccctact acggtctcgg acgcctggag tggttacagt cgtagtagcg ttctcccata 180

gaaggcctag agtaccagaa gacaatgcag agaagatggt ggaagtggtg actgaggcga 240

ctgatctggc ggtggaggtg attgagaagg ctgttgatga ggccgtgtaa gtgccttttg 300

gtagcgaaat ctctaagtag gtagttctta agaccaagat gactgtggac gagactgagg 360

aagacgttga taaagtcgag gtttcgaccg agaaggccga tgagacaaag aaagaggcgg 420

acctaactgc tg 432

<210> 38032
<211> 486
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-F3

<400> 38032

tttgggctga tttatgtgct tggccggact tcggtctaga aggaatgtca gtcacacgtc 60

caatatacgt aagctgaatg cggggcctgg ggagtcgggt agaaggaaaa gaggtcttca 120

gtcaaagccg ctctgtttcg ttcgtagggt gtgtgtaatg gtcccgattc aatggttctt 180

gcccgtcgga actggaacag ccgagaataa agcggtgaat gggcgtgcaa tgtgcgggaa 240

ctcgttgaat agcctgggtt aaacttcgaa gaaagtctaa aagtgtcgcc cgacgagttc 300

gtgcagcacc aggcagccgg ctaggcaaag gtcgattaag ttaacgacgt ccagtcggct 360

cccctggacg actagttata tcgggatcga gatatggttt ggatctttat ggngggtagt 420

agcggggaac tccggataac gggtgaaagt ttgacttagt aacactgtgc gagcgaagaa 480

gggtac 486

<210> 38033
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F4

<400> 38033

ctttgggctg atttatgtgc ttgtatagat ataagctgct gcaggtagtg agtcctctct 60

tctctttatg tactgtgtta agggagagag agagactgtt gtcttttcct ctggtgctgg 120

cggcgtgggc gtttctttct tctgagtgag actcgctcgg ctatagactc actcgataaa 180

acggcgaaga ctcgtcgtac tggcgtcggt cacgctggcg gtttaattac ggttgctacc 240

gtttctaagc gtttagatac cgaagctgct gctgccgata ctcttaagtt ttgtaccgag 300

gttcggaata gcgatatttc gttaactcat gagttcggct ctgacgacgc cgcgaagtag 360

cgtaggggta ggaattctcc tcctagtatc gacgccgaga agtatgctgt cgaggtcgat 420

accactcccg ctctggcgaa tatttttatt aagatttgcg ggtccggagt cggtaag 477

<210> 38034
<211> 484
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F6

<400> 38034

aacctttggg ctgatttatg tgcttgtgcg ccttctcgcc ccgttagggt taattccgtt 60

aatgggctga gccgaattaa tgttagcatg agagaagagg ggccggggag gcagatgagc 120

ggtgcaggga atctggctgc ggggtggcag agcgagtgag cgagagagag gtagggtcgc 180

tatgagtgcg ggtaggtgac tgtgggagtg acgatgatgg tggttggtac gttggggccg 240

ttggcgggtc tggttgttgt ggtcggggcc tttgtggtgt ttgaggcggt ggctagggat 300

gtggcgactg gtcggccttg tggtgagcct gtagttgtct cagaggactt aagtccatgc 360

atgtgcgtac gtgatgctac agtctcctca cagcgctatt caaacctaac ctatcggttg 420

ctgccccata atgctgcgat cgggaaaatt tcggtgccat ttaatccaac tgttccgtag 480

tata 484

<210> 38035
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F7

<400> 38035

ctttgggctg atttatgtgc ttggaaagac ccacctacgc tgggccctgc ccccacaact 60

aatctagtcc gcgctcgtac tcggggcagt tcgagtcctc gaccagccac caacccaccc 120

tagcttgccg gactccgtgc ttcggcacag ctcgcgaaag gccctgatgg agacctaccc 180

ggacccaccc aacagctcgg acgacaaaaa aaatacaaga taaaaaaaaa agggtggttg 240

tctcagagga cttaagtcca tgcatgtgcg tacgtgatgc tacagtctcc tcacagcgct 300

attcaaacct aacctatcgg ttgctgcccc ataatgctgc gatcgggaaa atttcggtgc 360

catttaatcc aactgttccg tagtatactt tttccctgtt agtcgggtgc acagtg 416

<210> 38036
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F8

<400> 38036

atttatgtgc ttggaaagac ccacctacgc tcggccctgc ctctaccact aatctaatcc 60

gcgctcgtac tcagcgcacc tcaaatccgc gaggggggcac caaaccaccc taactttccc 120

gactccctgc ttcggcacaa ctcgccaaaa gccattattg agatctaccc ggacccactc 180

aacaacttcg acgactaaaa aaaaacctat taaaaacaaa agggttgctt tctcaaaaga 240

attaaatcca tgcatctccg taccttattc tacagtctcc tcacagcgct attcatacct 300

aacctatcgg tatgtccccc ataatcctcc gatcgcgaaa atttcgcttc catttaatcc 360

aactc 365

<210> 38037
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F9

<400> 38037

cccacgcgtc cggtacaagt gagccaagtt tcgtgccctg cagcgcgagg ttagctgctg 60

gaagggagcg tagaaaggcg agattagctg tgggattgtg ttgggcttgt cgtgttttct 120

tttgcgttct ttcctagtca ttgctgttgc gcttttgtat ttgtcggacc cgtaactacc 180

agggctctgc tattagcggc acggagcctg taattgtatt gtatgataat gtgatcgagg 240

gtgctacttc ccctcggcat tcctagtgtt ggtt 274

<210> 38038
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-G1

<400> 38038

tttgggctga tttatgtgct tgtaatagta atggtagtac ccgttccgat acctccaagg 60

aatagcggag cttcgtccca atcgctctaa aggcctcttc gctaactcgt ctatcgtcta 120

tggatttaaa tttcgacgac ttctccgctt tcgagaccgt ctatacgcat aagattgata 180

gggttaagca cgagcttatt gtatgtcttc ggatatagaa gcacgttacg ggtcagaagt 240

aaggtcaaaa gtcggttaaa tcggcgaacg cgttggattt taaactgcca ctattcaaac 300

aattagctaa gctgtaagca cgaacggatc cccgaggatt accgcgtttc gccgaatcta 360

cgcaccattc cgcgaaaaaa aaaaaaaaaa aaaacacaaa aaaaaaaaaa gggtggttgt 420

ctcagaggac ttaagtccat gcatgtgcg 449

<210> 38039
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-G10

<400> 38039

ccaccgcggg atcctcctcg acaccgcacg ttactactac cccgtccgtg acatcctccg 60

gaccatccgc gccatggcct ccaacaagct caatgtattc cactggcaca tcaccgactc 120

ccagtccttc cccatcgtcc tcccctcggt ccccaatctc gccaacttcg gctcctactn 180

ccccgtcatg cgctacaccg accaggacgt ccgccgcatc gtccgatacg ccggggcctt 240

tggcatcgcg ttaatccttg aatcgacatg cccgggcaca cggggtcctg ggccggc 297

<210> 38040
<211> 388

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-G11

<400> 38040

cccacgcgtc cggcgccgcg cgagcacgtt ttgcgccggt gcggcaggcg aaatccgaga 60

gcactccggc cccgctacgc cgcaccgccc atggccgcag ctagccgcag atagagagag 120

gcgcaggcga gggcgtgcag atccagatcc ggtgggcggg aaggacttga tcgcccccac 180

caccatggcc ggcgcggtgt cggcgctctt cctgctggac atgaagggcc gcgttctcgt 240

ctggcgcgac taccgcggcg atgtctccgc gctccaggcc gagcgcttct tcaccaagct 300

cctcgacaag gagggcgatt cggaagtgca ctcgcctgtg gtctacgacg acgctggcgt 360

cacttacatg ttcatncagc acaacaat 388

<210> 38041
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-G12

<400> 38041

agcatacaga cgaataatct ctacttcact ttactaacac cagctagcaa ctctttctcg 60

gctgcaggaa tggccgctcg ctcctactcc taccagccgc agctggtcgc agccgctgag 120

gtactggcag cggagctgat gctgctggcg gcggcggccg agacagcgtc cgagctgtga 180

gctgcagaca ggtgacgtcg tcagaggcgc cgagcctc 218

<210> 38042
<211> 483
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-G2

<400> 38042

ctttgggctg atttatgtgc ttgtttatgt gcttgtttat gtgcttgttt atcccccctgt 60

ggatgtgcgg gcacatcgtc ctgggcgcgc gcggcccgcg ggcggctcgc tcgcccctta 120

ccctcactct acgagtatta attagataat tcacgagaat cctagacact gtcacgactg 180

gtgggttaat ttgcataata cagggactcc gaataatcct acggagacac ctcgtattgt 240

agctttcttc cttaagaata atccttgagt tagggcttta gcagagtaag gcccatagta 300

actgtgcgtg ttagtaaggg gccctacgag ctcaaatacg gacaaattcg ccggggatcc 360

tgaaccgagc aggaagttag cactacggga cgaattctgg ctagtagtcg acactaggga 420

tccggagggc ggctcagggg gctcatcgga tgagaaagaa ggtaggacag tttacgtgcc 480

ttt 483

<210> 38043
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-G3

<400> 38043

ctttgggctg atttatgtgc ttgattattg tcgtactggc tctgattttc gaactctgtt 60

gttatccgtc ctcccgaccc gaccgtgcct ggcctgcctg gcgttttctt tgcttcggac 120

tcgccgtgtg agagtgtggt agtgtgtgag acctgttttt cctctcctct tcaggaagta 180

ggaagtaagt tgattgtctg tcgagtgttg ntgttgacgg ttgctgtggc gttgacgaag 240

tctcggaggg cggagatttg tggtaaggtt gttgttgtgg cgtttgatga tttttcgtgt 300

gcttcggcga tggcgattgc gtctgggagt gttggtttgc cgtgtcctac tgcttctgag 360

ggtgatatgg ctgttgtgtc tacttgtggt gtgtcgtgtc gtcatgtttg tg 412

<210> 38044
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-G5

<400> 38044

tggctcggaa cctttgggct gatttatgtg cttgtttatg tgcttggact catagtcggt 60

tagccgcggg ctaacggcga tctttaagta gcatgaaaac tcccggccat agaaatttcg 120

ctaagggtaa cgtagagaat cgctttttag ttcgtagcga aggctatatg ctgggtcgac 180

ttttagtcac tcgccaaggt gttggccgga agactcgatt cattcttaaa gcccctggga 240

agcgcgggtt tcctattcgt cagagcgatt ggaagacccc gcttcgtatt cgccaagatg 300

taatagagaa ccgagtactt attccttacg gcgctataga gagccgactt ctaggtgaag 360

gcgctataga aggaaacggg actcgtcgcc cgttcgttat aagtcttata cttcttcgcc 420

ccgtagaaat ttaaggatcc gttcgccttc aaatagtggg agttcactaa t 471

<210> 38045
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-G6

<400> 38045

aaccattggg ctgatttatg tgcttgtatg tatgcctgct caaagtccga ctaccccgag 60

gatcagatgt agaggttagc tgaggggaa tccacacccg aggggactgc tacgcttact 120

aacgaagcct accgcgataa accctataaa gcgccgacgc tcgactatcc ctcgcatcta 180

ctgcgtcctt ccgcgatccc tacgcacgga cgtattcata ataccgagag gactacgaac 240

gtatacgttt cgagggatct gcgtacagcg cgtcatacgc ttaataatat gctaacggat 300

actaatttag agaatttcac tacggacgaa tcatgtatct acgtctctgt cgataagaac 360

gatcagctag ctactgactc tccaacctcg tcgacttaga tcgactcatc gattcatgga 420

cctacatcgt acgatt 436

<210> 38046
<211> 499
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-G8

<400> 38046

gaactttggt ctgatttatg tgcttgtcca gctatcggct cgactcggtt cagtcccgct 60

cgagaggctc caatcgaaga tacgggccga gccccgcttc tcaggcggac gtcgtcgact 120

aaagtcgtcc tatctacaaa atcagtttca tcattagaag taataccgat acccgtagat 180

cgactagacg aactaaaacc atcttcacta acgctagtac ttaaaggagc tatcctacta 240

tcggctcgat tatcccctag cgttattcgc cttagttgcc ttcctcccag ccgtctagtc 300

accttcctga aggtacaaga acatctaagc gtaccttaga tagcgcaagt aaccagtcta 360

agaccgtctc taatacacgg acaccccgac cctataacct cccctaaacg cttaatactc 420

gcaggtactc gtcccgtcac tctaaccaaa gttccacccg gtagcacaca attagcatct 480

ctactccttc gatgagtca 499

<210> 38047
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-F2

<400> 38047

ctttgggctg atttatgtgc ttggccgcca attacgcaag gggagatatc gctcaggttt 60

ctaatatatg ggtgattcca agtgacgacc cccgantgct aaagcgctgc ttccgtaggc 120

tttgggcgtc tcctgaccgc gcatggcgag gtcgacgagt cgggttttcc ttcggcgtac 180

aaggctaagt tcgagtctag acggaataat catcttcgga atatacaggt taattccacg 240

ccttcggagc ttttggcggg tgctcgtcct cttcatataa atatgagtcc tgattcgtcg 300

taatctcatg ataagactat tgtcgatcat gtccataagc cttcgtctaa tcggcctaag 360

aggcctttgt agcataggct ttatgatcct catactgttg gtcaaagtca tcttgggtat 420

ca 422

<210> 38048
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-D4

<400> 38048

tggctccgaa cctttgggct gatttatgtg cttgtttagg tgcctagaat gctgacgaga 60

ctactcgtcg ttataccggc gattgggtct ccaggggga tttcacgaag gttactgata 120

aggagacggg ttagaagtat gctttcgcta atactaccgg aattaggacc cgtgatcgtg 180

atcggtctca tgttgacttt gacggtacca tcgcacctag gatggaatct aatgtgcaga 240

tagatattcg ggcgcacgcg ggagcgcaca tcgaactcgg tgtctccgtc gccgagtttg 300

agtacgtaac tacggacatc tgtcggacta tatacccaca tccagtacga ctgtacgtcc 360

gtccatccgg ccaaaaaggg t 381

<210> 38049
<211> 478
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-D5

<400> 38049

tggctcggaa cctttgggct gatttatgtg cttgtttatg tgcttgggag gttgtggtgg 60

tggcctgggg gttgtagggt gctgggattt aggtggggcc gtgcttttgt ggtcgttgtg 120

gtggagtagt ctgttgttgg ccggttattg cggtctgccg tagctgtcgg ggaggtttct 180

tgtggtcggg tgttgtgttg tgttgatatg cctgagaagt ccaacaagac aggactgggt 240

atgcatagta atgcgcattg ggtgagggat attgctctcg gttggactgc tgtctccaaa 300

aaggcttgtc ctgacaattc tgagttagaa agtgctaagc ccacggtttg ggaaacatcg 360

acttcaagga gatctgatta ttttaatact actaaaccag agggtccggc tattcntagg 420

acgctacgta attccccatt ccgtcctgag catacggagt acgactccgt cggctccg 478

<210> 38050
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-D6

<400> 38050

ttgggctgat ttatgtgctt gtttatgtgc ttggcctcag actgtgagtg cctgtctcag 60

aggacttaag tccatgcatg tgggtacgtg atgctacagt ctcctcacag cgctattcaa 120

acctaaccta tcggttgctg ccccataatg ctgcgatcgg gaaaatttcg gtgccattta 180

atccaactgt tccgtaatat acttttttccc tgttagtcgg tgcaacagtg aataggtttg 240

cattgactgg ttccccttaa 259

<210> 38051
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-D7

<400> 38051

tggctcggaa cctttgggct gatttagtgc ttgtttgcgc ctattaaggc tgattagtct 60

accctgggta tcaatgggta tatttctatt gggggggctg ctagtgttat ttctgcgttg 120

ggttgtgtgt gtttgggtgt atttgttggt ggtctgcttt gtgtgttgtg tactgttgag 180

cgttccgctg gggatgagat tggtgctact gcacctattg cttgtaatga ttaagccgac 240

ccgtcgaagt ttgacgttat ggcgactccg tgtaacgtta aaactgatac gcctaaagga 300

ctaacgaggt ccgtagcgga taaacggggg tggaccgagg tcatagagtt agttagtccc 360

atagcgaagg aagataataa tccgctttcc gcagagcacg aaccggccaa tgcggtcgaa 420

caattgctga agtgccct 438

<210> 38052
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-D8

<400> 38052

tggctcggaa cctttgggct gatttatgtg cttgcgagaa agcatactcc tccaaaaaaa 60

aaccccaaaa aaaaaaaaaa aaaaaaaaaa aagaggagaa accaaaaaag ggtggttggc 120

tcaaaggact taagtccatg catatgcgta cgtgatccta cattctcctc acatcgctat 180

tcaaacttaa cctatcgttt gattccccat aatgctccga tcgggaaaat ttcggtgcca 240

tttaatccaa ctgttcccta gaatactttt ccccttatag tcggtgcaac aatgaaaagg 300

ttattattga ctgtttcctt taatagccgt gtatttccaa cggtaaacgg gatatgtttc 360

gcattggtgt accaagtgtg tgagccgcgg cggccatgtg taatgcgatt gacatatccg 420

ttagagtttc agtgtttgtc ttccctgtcc ctcctttcct tccctctg 468

<210> 38053
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-D9

<400> 38053

gccaggcgtc tggcctagtt gctcaaacat ttcaacgccg ccaagaagca catcacgacg 60

ggtcttacgc cagcttcgaa ataccatgcc tgatgacgtt tctacacacc ttagaaaact 120

ggtgtttcat ttggaaccca acatcttgta gctgtactcc ctcgagatgg tattgagcat 180

actgtccaga taccgcggct acaaacgcat tggtgcaagt tatgatgctc tagcaatgca 240

tgcaatgaat atagtgatgg gaagcactgt cccaaaagct gaatttgttg accttgaacc 300

cactgtcatc gatgaggtga gaactggcac ctaccgccag c 341

<210> 38054
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-E1

<400> 38054

ggtccgaacc tttgggctga tttatgtgct tggtacgtta tttctgcggt ttaccttgct 60

gactgctgtc gccgacgtcc gcgcccttcc gcggcacaga attccgtccc cggcatgggg 120

tcgtaacgcg gacctgacta aaaaaaaaaa aaaagggtgg ttgtctcaga ggacttaagt 180

ccatgcatgt gcgtacgtga tgctacagtc tcctcacagc gctattcaaa cctaacctat 240

cggttgctgc cccataatgc tgcgatcggg aaaatttcgg tgccatttaa tccaactgtt 300

ccgtagtata cattttccct gttagtcggt gcaacagtga agaggtttgt attgactgtt 360

tcccttaata gccgtgtagt tcgaacggtg aacgggatgt gtttcgcagt ggtgtaccaa 420

gtgtggtggg cgcggcg 437

<210> 38055
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-027-Q1-K1-E10

<400> 38055

gccgacccac ccgtgcggat tgtagccggc gccgctgctc atctcatatc cctctagaag 60

acgcctgctc ctcgccggtc gataggatgg ccgtcttctg cgacctccac accgccgacg 120

gcctcaagtc cctcgaggct cacctcgccg gcaaaaccta tgtgtctggt gactccatta 180

ctaaggatga cattaaggtc ttcgccgcgg tgccgtcgaa gcctggcgct gagtttccta 240

atgccgcccg ctggtacgag accgtctctg cggctgtagc ctcaagattc cctggtaagg 300

ctgttggtgt aaatctgcct gcgggatcag ctcctgcggc agctgctcct gcggatgang 360

ctgangatga tgatgacctt gatctttttt gtgatgaaac tgatgaggac aagaggcagc 420

tgatgagcg 429

<210> 38056
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-E12

<400> 38056

cccacgcgtc cgctctacta atccagccca tttcgaactc tctctagacg cttcctcggt 60

gtctctgggc accgctgccc cgtaccgtac tcctcttcgc gccgtagaaa tggcgctgcc 120

gaatcagcag ggcgtggatt accccagctt caagctcgtc atcgttggcg acggtggaac 180

tggtaaaacc acatttgtga aaaggcatct tactggcgag tttgagaaga aatatgagcc 240

caccattggt gttgaagttc accctctgga ttttagcact aactgtggca aaattcgctt 300

ttattgctgg gacactgctg ggcaagaaaa gttcggtggc cttagggatg gctactacat 360

tcatggtcag tgtgccatca ttatgtttga tgtcacttct aggctgacat a 411

<210> 38057
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-E2

<400> 38057

tgtatgtgct tgagtctgcg tccgtaagcc ctcaagatcc taccgtcccc cgatagggta 60

gggcgaaagc gtcgaaactc cctcttactt gaagtcagcc gtaattgtag gagacggaaa 120

aaacgacccc ggcgacaaaa aactccaaga aggataacga accctcgaag ggaaaacgcg 180

agaatctaga caccgtctcc gcgaagtcta ccgaagagtg cgagtcaatg aagaagtaaa 240

cagagaaacc gaaaaattaa aaggagatat ccgagctttc gcgctgacta tcataggtag 300

aaaggaaata aggttgtcat gttagcacct tagatgtttt cctcagttaa gaagatacgt 360

tagtgataag ctaagaactc cagtacacgc gtccgctaac accttgccgg cgcttgccat 420

agtccgttgg gatcctcgaa gttcgagaca cgaacacgcc atc 463

<210> 38058
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-E3

<400> 38058

tcctacggtg gcgcggactt gaagtcatcc gacggtggat gagactcata ttacgtacac 60

ggtgacgaat cagactacga ccgatcatga aaccgcgacg g 101

<210> 38059
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-E4

<400> 38059

tttgggctga tttatgtgct tgcccggcct agaggataaa atactaacaa accactacac 60

ggtaatacgc gcaccaaacc gaggttagaa atcgtaaagt ctagactact ccacccgtaa 120

cgcctaattt acatacacac caatacgcaa gtaacccata aggtacttag aatcatcata 180

aagaagtacc caagtagtgg cttaataaat cgtttaagta cctaagagct actataattg 240

tgagtaaatt ccttacacca ctagtcaaca gcactactaa acgtattagc gtcctaagag 300

ttattccagc aataacatac gagatactaa gctcat 336

<210> 38060

<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-E5

<400> 38060

tggctcggaa cctttgggct gatttatgtg cttgggtaaa aaaaaaaaaa aaaaaaaaaa 60

aaaacaaaaa aaaaaaaaaa aaaaaaaaaa aaaagagaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaggggtgg ttgccccaaa ggacttaagc ccatgcattt gcgtacgtaa 180

tgctacagtc ccctcacagg gctattcaaa cctaacctat cggttgctgc cccataatgc 240

tgcgatcgga aaaatttcgg tgccatttaa tccaactgtt ccgtagaata cttttccccc 300

tttagtcggt gcaacattaa aaaggtttga attgactgtt ccctttaata gccgtttagt 360

tcgaacggta aacgggattt tttt 384

<210> 38061
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-E6

<400> 38061

tggctccgaa cctttgggct gatttatgtg cttgtatctc ttgtcggcta tctatctccg 60

tcaccttatt tccaatctaa ctccagctct ccaggagtct caagtctcaa tcagttgtgt 120

tatcttcctg cgcagttact agttcctcta ctgttattaa cggttatcgt tgaagcttag 180

attttgattg ctgcggtagt tgatgaaatg tttagcgcgg aga 223

<210> 38062
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-E7

<400> 38062

tggttctgct cctaaggcgt gatcgtttcc gctgcaccct gcacccatcc ttaccgccct 60

gggggaggct cctgatctcg gggtcgaatg tcagtgtgca gtccgtcgat gataaatctg 120

ttctaatccc tggcgggccc tggaatctca accatagtcc atataaccgt tccggtcaaa 180

tcgtccggtc ggtatcaccc ccagctactc gactactcac tgcgcgctcc gggccaaccc 240

ggtatgcgga aagtgaccgg cctagtgagc ccacttccca agagtaacta agtctaaacg 300

accagtcctc ttctaagact caaaactacg ctcccattcc cctcccctcc tctacaat 358

<210> 38063
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-E8

<400> 38063

tttggtctga tttatgtgct tgtctgttga tcccgttgct tatcttttg ccctacttgt 60

gttgcctgtt gggataggag ggagagcaca gtattaggac gttggtgatg ttgatgacta 120

ctggtgtttc ttcggggtcg ggtatttaga cgcatctaaa tgtctcttgt aagtcttttc 180

atacgtgtta cttacgggag tacccgccgg ggacgggctc tggcgtagcg cccgcgaatt 240

agtcggcaaa ggccgacgag aagtctaagg aggattctga taagacgtcc gagtgtgtta 300

ggtcagttaa tgagtagtgt cataccgggg aatcgtagcg attacgaagt gtacgtcgga 360

aattctaccc ttcggtacct acgccactcc gtacaaccac ttcatcgtac cttttaagtg 420

cgcatctagt 430

<210> 38064
<211> 111
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-E9

<400> 38064

cccacgcgtc cgcccacgcg tccgggtctt tccagtcaat gtcaatggtg tcagagctct 60

gggcctttgt ngtttttgtc ttgccggtcg gtgttttcac atctttcttc t 111

<210> 38065
<211> 116
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F11

<400> 38065

aaaaaaaaaa aaaaaaaata aaaaaaaaat ttttaaaaat aaaaaaaaaa aaaaaaaaac 60

aagaaaaatt gaaaaatttt aaaaggacaa taaacaaaaa aactcaataa caaaaa 116

<210> 38066
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-D3

<400> 38066

gaactttggg ctgatttatg tgcttgttta tgtgcttggg agttttgaga atttaccatc 60

accctccttt ttgctgctat cttctcgtgt ctctctgcta tcttatctta gttttcctct 120

cagactctct ctttttttctt ctatatgtat ctatctctgc tatcgaggtc agtcatcagt 180

cgacatcgga agctcggaat atgtatcgct atccgtctgc cctaaggatt cgtttcgcgt 240

taaccaagca gcatgttgct gcatggctag tctcgagtca gtctcctgcg tctgtgacgg 300

tgctggagcg ggaaacggtt acgggggcgg agtctggtac gggaacgggt ggtatgcatt 360

attataatgt tcntagtact attattgtgt tgacgacgac gagtagttac ttttatagtt 420

atagttgtgg tgttgttagt cat 443

<210> 38067
<211> 228
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-B4

<400> 38067

gggcggccga gaggcatacc ccngatgaga agaatgttaa gacctctgaa ggcgatactc 60

gtaagttagg gtggtatggc cgtaagaggt gtggtggtcg tggcggtggt aattaccatt 120

agctgctggg tctgatgacg attccttagt agaatagttc gagtcatgtg attacgttgg 180

agctgttgcc taaggatctg atcattgtat actagcctgc gttgagtt 228

<210> 38068
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-B5

<400> 38068

tggcctggaa cctttgggct gatttatgtg cttgtggatg tgcgggtgga tgtgcgggtg 60

gacgtgcggg tctgtgtgag atcggatcta gacggacggt tcgcacccca gccgcagaag 120

ggggtaaacc cgtattgcag cattacggta cggtcacacg tggaatcgcc gaccgacgag 180

ctgccgcatg gcccgctgat ccgacgacac gccgacgcgg gagttttcga acgaggtggc 240

accaacggaa acacaggacg gtaacgataa ctaaaaaaaa aaaaaaaaaa gggtggttgt 300

ctcagaggac ttaagtccat gcatgtgcgt acgtgatgct acagtctcct cacagcgcta 360

ttcaaaccta acctatcggt tgctgcccca taatgctgcg atcgggaaaa tttcggtgcc 420

atttaatcca act 433

<210> 38069
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-B6

<400> 38069

gatttatgtg cttgtcggat tgtcgggcgg acgagaggca taacgatgat gagaagaatg 60

ttaagacctc tgaagcggat actggtaagt tagggtggta tggccttaag aggtgtggtg 120

gtagtggtgg tggtaattac tattagctgt tgcgtctgat gacgattctt gagtagaata 180

gttggagtca tgtgattacg ttggagctg 209

<210> 38070
<211> 100
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-B7

<400> 38070

ctttcttctc attttctgct tcaaaaaaaa aaaaaaaaac aaaaaaaaac aacacaaaaa 60

aaaaaaaaaa aaaaaaaaaa aacagtaacc cccaaaacaa 100

<210> 38071
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-B8

<400> 38071

ttgggttgat ttatgtgctt ggattgattg ctgttatcag cgtcgcgtct ccacgtggac 60

gggagtgtta cggagaggct ggggcgtcct gagaaggtat atagtaatac cggtatgagg 120

attaaggaag acgatgagtg gactaccgtt aattcctggg tctaatgaca attgcgtagg 180

agtatagctc gaatcgtgtt attaccttcg ag 212

<210> 38072
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-B9

<400> 38072

atttgatctt attggaagag acaagagcat gattcactgg agggtgctaa aaattgatcg 60

ggtggagtgc actgagctgg gtgtcgatga ggatccaact atttacacgg aaagtgaatg 120

tcaagaactg ctttggcgga tccatgaggg gaacaggttg actggtggac tgaaatttgt 180

cacaaaatgt tacggaatag ttggttttgt aaagtttctt ggtccttatt acatggttat 240

aataaccagt agaaggaaaa tcggcacaat atgcggccat gaaatttatt ccgtcggcaa 300

gagtgaaatg attgcaattt caagtgttac agtctggccc aacgtggctt attctatgga 360

cgagaacaga tataagcgcc ttctttgctc agttgacctt tcgaaggatt tcttcttcag 420

ctactcttac aacatcatgc gc 442

<210> 38073
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C10

<400> 38073

cctagatcta cacatattct cgagagccac tttcgccaag gtccccataa gccataagtg 60

ggcctgcggg ttctacaaaa cgcgaataac caaaatcacc tgctcaacgg acgcatcatc 120

ggcaagacag caggtttctg taccaatctg agccttcgtg tctatctgat tgcaggaata 180

aatcgtattg cggttaacat gaactccaca tgtatctagc gttgatacca tgccaagagg 240

tggtgtgcac cgaacatgag ctccacatct atgcgtcact ctgcatggaa gtctgagccc 300

ttgactcact ttagccacaa acag 324

<210> 38074
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C11

<400> 38074

cccacgcgtc cgtgctggtg gacgtggact ttgccaccac gtgcctggcc ttcgcgcccg 60

gccggagcgc cgccatcatc gggaacacgc agcagcagac gttcagcgtc gtctacgacg 120

tcaagaacag caagatcggg ttcgccgccg ccggctgcag ctgagaagcg acacctacat 180

acacgcgcat gcacagaccg actcggcaac taaaactaaa acgagcagcg catgcatgca 240

tctaccgtcc ggtttcgtct gaaaccatca ttaatttcga tcgtccactc cacgcacagc 300

aagttcttta cggaccttgc cgcatatgat atgtacatgg tgacaagata aggtacagga 360

gaattgatga aagaagcgtt gccggccagt cgtcgttgac aagaacaaca cataaataaa 420

acattattac ggagta 436

<210> 38075
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C12

<400> 38075

cccacgcgtc cgcggacgcg tgggtgccta ttcattggca tcgatggatt gtcttcattg 60

cgttgccttc ataagttgac cttgcttgac ctgtcttata catttttgat caacttgaag 120

cctatttttg acagttgtcc acagttgaag gtgttaaaac tttcagcttg caagtacctc 180

agtgactcat cattggatgc cctttacaga gagggtgctc ttccattgct tgttgagcta 240

gatctgtcct actcacccat cgaacagaat gcaatagaag gtcttcttgc ttgttgtagt 300

aatttggtta atgtgaactt caacggatgt acaaattttc aagaattggt gtgcgaatct 360

tgggatagcg gttctgtgga tatgccagtt gactcttgac acctagttca ccaatcaaga 420

atgaggagat cagtg 435

<210> 38076
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C2

<400> 38076

gcgtcacgtc cacagctggt cgccagtgtt acggcgaggc tggtgcgtcc tgagaaggtg 60

tatatgaata agggtgtgcg gattaaggag gaggatgagt ggtcggcggt gcatgcctgg 120

gtgtatggag aggggcgtcg gtgtctgtcg cttaacgtgg tggggtcgtc gtgtcgtggt 180

aagagtcgta ggtcgtgtcg gacgaatcat tcgtgtatgg attccaagtg tggtaatcct 240

attgatgatg aggatgagtc tactacctgc tcgtatagct cctcgcgtaa taagcgagcg 300

agtgcgccgt 310

<210> 38077
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C3

<400> 38077

tttgggctga tttatgtgct tgaggcgagt cttttcatca ctattgctca tgccgccatg 60

agcttcgcaa tttcagaccg tagggtttct acgcttctct gtttctggaa gaactggcga 120

aaattatgaa cggcaggcgt tgcgatggag aacgtagtgg cgttcgcgtg aatggtggtt 180

ttcgaaattg tcgcctatct ggactagtac gcggagagcg gcgtgacggc ggaagatctc 240

gtggtgctta tggcggtctt agagctaatc ctcgatgtaa actaagtcac tgaggatgta 300

gctttagaag atggggcgga ttaagacata gcgataaacg ccgacgct 348

<210> 38078
<211> 141
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C4

<400> 38078

tttatgtgcc tgttcctcgc ccttggtcaa agatctcagg aactctaggg gtacgcatat 60

tgtggagact cctacgtatt gtccttcatc gctcagtgtg acttagatcc caaacttaca 120

aaaagttgac cggcctcaca t 141

<210> 38079
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C5

<400> 38079

tggcccggac ctttgggctg atttatgtgc ttggaggaat tccgtcaagt cgaacgacga 60

gtctcacgag gcgtattaga ctacgatctg tagggcctaa gaagcctctg gcgccggcga 120

aaaatcagat taggccagcg agacgctaag caggccgatc ctggacatca gaactcacgt 180

agaaaaggtg aaagactcta actgttaggt accgacctgc aaacacgttt ttgccgtcac 240

cgcgaccggg acagcggcga cgtctcctcg ggcgaagaat aagacacggc gatcggcgtt 300

actccgtgac cctatagcca ctacgtcgga attagtcgag ccgctccgct cctttctgcg 360

taattacacg cccgactgcg gctttaaaaa gaaaagaaaa gacggtctga cggcccactt 420

tgtactcgtt gacctaagtg atcatcccag tcactaaaa 459

<210> 38080
<211> 478
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-027-Q1-K1-C7

<400> 38080

tggcccggaa cctttggtct gatttatgtg cttgtttatg tgcttgttta tgtgcttgtt 60

tatctccttg accttaggcc gaccccgatt tagggaggcg ctccgactga gtcccgacat 120

gcccacgtct aaaacccgga gaccactata aggagatatt tctactgcct agcccacttt 180

tatgatcact aacacccttt taacccacac ccaacccgag gtgcctctag cccgcctagg 240

cccccaacaa tagcttcgac gaaatcgtgc accccaggac gacgccggat agagagaacg 300

caattaacat agccgcgacg acctaattcc tatccacact tcacctaccc taactagggt 360

tagagttagc ctctccggac gtaatcgtaa ccgtcctcga taagacttcc ccaccggatc 420

tccaccgcat cggcgctaca ccttacggng caattaccgt gtagcggtga aacgtcgg 478

<210> 38081
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C8

<400> 38081

tgcttgagcg ggtacagcga ccaataaaga tatcgccaag aatacgcttt cgtgtaagtc 60

tcgggagcga ggtctgcgtt cattgccgat aggatccgtt aagttacgtc tagccttccg 120

agaaatacac tccccattaa agtagcggaa cggtccaata gtacgtctcg gataacgcca 180

cccgaatccg tcttgaatac gtccacgccc aaaggcccat ccacaattct cgcagcgagc 240

tctcgtc 247

<210> 38082
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-D10

<400> 38082

cggacgcgtg ggcggacgcg tgggcagctg tctggacagc aaccagctgg ctgaagtgga 60

ggagttcgaa gacaagatga aggagcttga ggggatctgc aaccccatca tcgcgaagat 120

gtaccagggc gagggcgcgg gcatgggcgc tgctgctggc atggatgagg atgccccgtc 180

tggtgggagc ggtgctggtc ccaagatcga ggaggtggat taaattggtt agtgttcgag 240

gtttggtttg gtgaggtgtc aagtgcctga actctgaagg ttgtttgtga gataagtgat 300

cttacgaagt ggtcgcaata gctgcggcct gtgttgaact tctcagaaat aaataagttt 360

tcgttcctta aaaaaaaaa 379

<210> 38083
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-D11

<400> 38083

cccacgcgtc cgcccacgcg tccggtcact tgctgcctcc gcttcccagg acagcttaac 60

gctgacctgc gcaagcttgc agtcaacctg atcccgttcc ctcggctcca cttcttcatg 120

gtcggctttg cgccactcac ctcgcgtggc tcgcagcagt accgtgcact cactgtccct 180

gagctaaccc agcagatgtg ggatgccaag aacatgatgt gtgctgctga cccacgccat 240

ggtcgttatc tcacagcctc tgccatgttc cgtggcaaga tgagcactaa ggaggttgat 300

gaacaaatga ttaatgtcca gaacaagaac tcgtnctact ttgtggagtg gatccccaac 360

aacgtcaagt ccagtgtttg tgatatccct ccgcgt 396

<210> 38084
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-D12

<400> 38084

ctcatgttcg attcaatttc cgcgcttcat ttaaaggata aagcacttac agatcaaaac 60

ggtgtccggc aaaagttcat ggaggcagag aaggagaaaa acaaggcttt aatgaacgcg 120

cagctccggg agcagcaaaa tggagcatca acaagctccc catcactttc accaccaata 180

gttccagatt ccatgccaac tctaaatata gggccatgtc aacatagagg ggcagcagaa 240

tctgagtctg aaccgtctcc tgctcctgca caagcaaaca ggggcaacct gccaccatgg 300

atgctccgca ctgtcaagta acaggtgagg tctttccagt gtagttttgc agctgatctc 360

gacagcaaca cacctgtcac cgaaatgctt ctgtgacctt agatatcaac cgatgcacga 420

tccatcttga tcctgtgatc gaataccggc gtaagtacta ctaat 465

<210> 38085
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-B3

<400> 38085

gatttatgtg cttgagtcgg tccacccgtc ctagccgaag acgccgagta aatttacttt 60

accccaatcg acgagatcag cttcacacgg ctaagcgagg agtaagcaga tggcctccgc 120

ttcgtactgg aaagttggga gtaattcgcc ttccctaagg cggccacatc tggattacgg 180

tacgacgcgt taaacagtac ttcaagacta aggttcntcc taaatcatct atagcttacg 240

taaggactag actcacacgc cggaaacgcg gacgcaccgg actccctcaa ggagtagccg 300

gatctgaggc caaaattcga agaataagga gtggaggacg gtccacccgt tctagcggaa 360

cacgccgagt aaatata 377

<210> 38086
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-A1

<400> 38086

tctagggttc attagatatg gntggcgtta ttatccttac cgtcgaggat actaaaccct 60

tattggtcct gctttcgtgc ctcgcccgtt ctaaggactc acacagtgtc tcacgtcccg 120

cgttgtccgc ggtacttcta ttagaatctt gtctgtctaa gacatcgtgg cgtcttggtg 180

ttcgggattc gttaccggag gctactatcg tatgcgtctt cggatccgcc gagtcctatt 240

ctgagaaatc ataggctggt gattgcgggt ccgtcgtgtc cctcgttcgc gttaactcgg 300

aggcttcgcc ttccgctaag attttcgagc gtatcgacct gggta 345

<210> 38087
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A10

<400> 38087

cggcatgcaa gctactgttg gtgctttggt ttcaaaagct ctcacaacct ctgcagtacc 60

cgattatcag gctgctggcc aaagccctgt cttggcttta gatgttttcc tagttcaggc 120

ttcagcgaac accatcctgt cgcatttcct tggggtggcg agctccctgg agctgctgcg 180

ctcggtgtca ctgcctccag cagaagccgc cgtcccggcc ccggcccctg cacgggcctg 240

agccatggcc cgttgggcag gtcaagaaaa accttcaatc cttggctttg gctctagaca 300

gttgctattt cttgattgca tgtacaactt gcatcaagaa tacatacaca tcgatgcctt 360

ccagttcacc tggacgcaac atgttcgcgt aattcccgcc gagtgtgagc tcttgcatga 420

gcactcgcga accacatgt 439

<210> 38088
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A11

<400> 38088

ggagacgtca cgcctgcgcg gctgcgctca ccatggacga ggatgagttt gggcgcgtgc 60

tcgacctctt gccggtcgtc cgctcccgag actactgctg ctccgatcct ggaacatcca 120

acagaggaac cagacagcta tcacgagttc aggaggcaac taatggcgat aataaggact 180

cgtccggtgc acaagatatg tttatgcaga aattgaagat ggctgcggag aataagattg 240

gagcgacaaa ggcagagttc ttctgcaaga cattcgaaga agttcatgag aaacttgttc 300

acagagagct gaatttggat gctgctaaga agttcctgag cgcatatgag agc 353

<210> 38089
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A12

<400> 38089

cggacgcgtg ggtgcagatt gacccagcga tttacaagag tatctcatct ggatttggta 60

ggctgttaaa ggagcaaggg gccaggggtt tcttcagggg atgggtgcct actttgcttg 120

gttacagtgc tcaggggget tgcaagtttg gcttctatga gttctttaag aagtattact 180

cggacatcgc agggcctgag tatgcccaaa agtacaagac tctaatctac ctcgcaggat 240

ctgcatctgc tgaggtaatt gctgatgtgg ctctctgccc ttttgaagct gtgaaggtac 300

gtgtgcagac acaacctgta tttgctcgtg gattgagtga tgggctcccc aaaatttgtc 360

cgatctgaag gtggtcttgg gc 382

<210> 38090
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A2

<400> 38090

tttgggctga tttatgtgct tggtcttcaa ccatcgtcat aggcgcggta accccgtcgt 60

aacttcagag tcggacgaga atgcgaacaa gtagccttgt gcacccgaag tcgtcttata 120

cgaactaaga ggcgccttcg tcaagaggtt agtattagac catccctcgc gacgtcatat 180

agtgaatgtc cgagtccatc gcgtccctaa gtgtcggatt ctacgccgta agaagagtct 240

aggtttcata gtcccttagt taggaggcgg cccctaggac gcgcaaaccg agcgctactc 300

ctctttccta ggcttacgac ccgcaagaga gccggacccc ggtacttagc ccccctatag 360

aatactattt acccgagtcg gagaaacatg tttccgtgaa ggggccctac gcgacgcgtc 420

aaa 423

<210> 38091
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A3

<400> 38091

aattggtctg atttatgtgc ttggggaact ttggtaggta aagtgaaagt acccgcgtga 60

gaggtgctgt gcgccttccg tcctgggtct atgcgttgcg gtttccgtgt ccctttgca 120

catgattgcg tcgcctttgt tttgagtgaa ttggtggtgg tggaggtgac gtagtatgag 180

ttgcggtggt tcgatgtcga gtttgctgtt ggtgtcgggg tgggtttcgt ctttattatt 240

gctgatgagg tacctacgga gtggaatacg agtcctgcta aggtgtccta ggagtctaag 300

aattcgtgtt tgtagtctca tctggttcat gagcatcgtg agaagcttca ttcctgtagt 360

gaatagaagt aagcggcgtc ggataatacg aaagaccatg tcggctaggt ttcggctaat 420

gtcgctg 427

<210> 38092
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A4

<400> 38092

tggtcggaac attgggctga tttagtgctt gtctgccttc tcgtctttcc ccgtaattct 60

tcgctacaca ggttatcgcg attcgtcctt tcggtgtagc cgtgtactct tacagttatt 120

ctggaagtct gaggttgagg acttatacac acagtactcg ctccccacat caggccccag 180

cccccgggag aactcatatg gtgtacaagt caggcagtcc ctcctaacaa ctccggctta 240

gcttaataag tccttt 256

<210> 38093
<211> 315
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-A5

<400> 38093

tttgggctga tttatgtgct tgtttatgtg cttgaacgtt cggttacatc cacgcttttc 60

gacatagccc tagtcaacga tcggctagct acaatatagg agggtaagtg aagtacgtcg 120

aagtcggtat ggtggacgat ggagaatcct cgtgttgggg ctagtgtgct actcgtatgc 180

gaacggagca agtcggatgg tgtcgtaagt agtactgggg aagacgcgtg ggctacggta 240

tggaaaagtg cggatgagtt cggggagttg ntgggtgcgg cttcaagtgt agttatactg 300

gcgcgggcgt ttgcg 315

<210> 38094
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A6

<400> 38094

tttgggctga tttatgtgct tgcgtggccc tagccgtatg agacactaac cgcgaactta 60

gcgccctccc cgatatcttg agggttgaca taatcgctct cacgaagtgg agaagggcga 120

agtgagaatc cgaagcaaac gggtagtact acaagaagta ggctttcgat accgaggacc 180

ccacacacga aaaggttaaa ataccgatac tgctaagcaa ggtaataata ctcccggcta 240

aggcggagaa aaaggctgga gccctcctag ccacaaaagc cggagtctta gacaatcggg 300

aggtagcctc cggaggtacc aaaagtacga ggccactcgg cgaagttttt gcagacatga 360

agggtcgcga aaaagtcggc ctctcttcct tatttaagga aagaagaccc gtagcctcga 420

cactaatcac gacgctaagt tagataaatg acgaagccat atacgtcgtc gcggaa 476

<210> 38095
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A7

<400> 38095

cttggctccg aacctttggg ctgatttatg tgcttgtgga tgtgcgggtc gcggatctgg 60

acgaccacta acgactgctg ctcactgtac acgaatgggt gcacacgaga cacccgcccg 120

tgagagagcc tagcccgtta ccgacgctcg cagtccacga agtttccagc cagccgttat 180

cgccgccttc ggcatccgca cgaaccgggc cacgaaaacg aagagccgcg ccacgagccg 240

caccccgcga ctaaaaaaaa aaaaaaaaga aaaaacacaa ccaaacacaa aaaaaaaaaa 300

aaagggtggt tgtctcagag gacttaagtc catgcatgtg cgtacgtgat gctacagtct 360

cctcacagcg ctattcaaac ctaacctatc ggttgctgcc ccata 405

<210> 38096
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A8

<400> 38096

tgcttaagtc ttcactcatg gttattaaca gccttgattt gcaagtgtta atgttttacc 60

cgttatcatt tcattgtgta ttggtaaagt gtagtgttag gttgtagtcc gtaagggtag 120

gtggtggtgg gtagggtaat tgttatcgta gttgagactt ggtggttagt ggtaattggt 180

ggggggtagg tggctgggat tcggcgctgg ctcatagtta gatagtagta gtagtagtgc 240

gatattatca ttgcacggct tatcgtcttc ccgtcggcgc tgcttatcgt cttctcgtaa 300

tgctgcccga ctcttcgcgt agctcgtata tgtgcgccga aggagccgac cttcgcatag 360

tatatgacag tataaattct catcggccta ccttcggcat cattgcggca actcgattcg 420

tcacactgtc ccgtccacca ctcacacct 449

<210> 38097
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A9

<400> 38097

cccacgcgtc cgcccacgcg tccgggcact ttacctcctc ctcctcctcc tcctagcaca 60

ggtagcgcct gctccccttc gcctgtgatc atgtcttgca gcagcggcaa gtgcgactgc 120

ggctccagct gctcctgcgg cagctcatgc aactgcatgt cccctaacgt ggagaccgcc 180

gccgccagca gcatcaagac catggtcctc gctgcgccga ccaccaaggc cagcgccggc 240

ggcttcgagg cggccaccga gggcggcggc tgcgactgca acacctgcaa gtgcggcacc 300

agctgcggct gctcctgctg cagctgcaac tgagcgccgg ccggcccggc gatggcgcgc 360

acgagtcgac ggaaggacga cgacgagtcg tataaatata atagcggcgt ctaaataaga 420

tcctgtcaac tgcacccgcc atcatcgat 449

<210> 38098
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-B1

<400> 38098

tgcttgttta tgtgcttgtt tatgtgcttg gctgatccca aaacttgtat ggctgaggcg 60

gagggtagga ttgcaaagtc gtagacccgg gatatagtac ggtaggagtg gcctaggatt 120

actatgagta gtcatcattg aggagtctat gggacaacca ccgcccacga tactatggat 180

acggagagtc ctaataatgc gaagtagcgg tccgacgaga ctgattgaca tgttaatgat 240

agtgcacgta agtcctctgc cggcaataaa cgcgactcgg ttgagaatag ggtcgctgat 300

atcctagcag tataggtcca tgtcg 325

<210> 38099
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-B2

<400> 38099

ggccttaaga agtgttgtag tagtagtggt agtaattacc attaggtggt gggtctgatg 60

acgattcctg agtagaatag ttggagtcat gtgattacgt tggagctgtt gca 113

<210> 38100
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H9

<400> 38100

ctatttctca aagaacttta atcacttggt tgatcaactg gcatacggca cacaactgta 60

gtaaaaaatg gagaaatgct tggtgtatcg catctaagaa acagaagagt tttgtccaat 120

gggtttgttt cattagggaa ggaggatctt cagctcatgt atagtgatgg tgataaggct 180

tttggtacat ccactgatct ctgcattgat gagagactaa gaatcgcatc tgatggcatt 240

attttttgtca ggtcaggtta aagttacttg cttcagatac ttagtaattt tgaaaggaac 300

atcaagagcc ttatcttatt ctttctggcg ggcattgatc cagtacactg atgcggctac 360

tgcttcagct gctagagaat ccttagatgg aaggagcatc ccaagttact tgcttccgga 420

gcatgtaaca tcctgctgcc tgcgaatttc ttt 453

<210> 38101
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-G4

<400> 38101

ttgggctgga ttatgtgctt gtggatgtgc gggcgtgtgt ctcgacttgc cctgtatctg 60

tcggtatgtt gtagtgaagt gcggcgtcgg atactgaggg tatgatgagt tttactctgc 120

ctgcgatgga tgcgtctcct tttcatgttt gtgataatgc ttgtatgtat tcggatgtta 180

ttcatcttat ttgtgagatt aaggatgata ctgtttcgtc gtgtgtctag gctgagtagg 240

attcagttga aggtgctgtt ggtgttgctt tggctttgtt tgatggtgtt ggtaaggatt 300

gtgctgctga tgtttcggct gttaatgcgg aggttacgac tgtggtggac aggaagataa 360

ttctgtcgaa gtagccgtag ggttatactc ggaggatcgg gcctgagcgt taagaaacta 420

agggggcggc gcctgatgat gcgtt 445

<210> 38102
<211> 474
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-G5

<400> 38102

ggtctggacc tttgggctgc attatgtgct tgtttatgtg cttggtcctt tagagatctt 60

agctacggtg actctttaga ctctatgtac gaccttcggt tacttcctct tcggttgttg 120

ttcctgttgt tgttttagtc gtgtccgtgg atggtgatga tgcggcggtt tccattgaac 180

ttatgcctga gaaggaggct ggaaaggatt gtggtgtttc tgctgagcct catgtttttc 240

ggcgcggcta tcgtaagaag tccgtcttcg agcacgaaag atccggcgta agccccaaga 300

aagtcaaact cgctccgacc gtcaaggtcg accgcgacga gtataagagc ccgcgtagta 360

agcacggagc ccttgggcac ttaataactt aacggccttt gaaaggactt ccggagttta 420

aaaagcacga aagataatgt atcgtagaag tttcngtcga accctctaac atcg 474

<210> 38103
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-G6

<400> 38103

tttgggctgc tttatgtgct tgagagttca tagacgccgg actctcctag acccttaagc 60

actatggacg acggcactga ggccgccagt aaggagtaga atcttctcta ccgagtctag 120

aacgtgagaa aacttgaaaa ctggggacgt tctcgcgacg gtctccgtcc ttacgtaaac 180

agacggcgga attcatggca gcattccgta gtcgtcggac tcccccgatc gcggcgggac 240

catattttcc gtagtatgcc ggcccaagaa attccatccg ttcagaccgt ggcggtcggg 300

aaccataggc agtcngaaca gggccacggc ggacgtatcg ctctgaagtt ggctacctcc 360

atacacggtc cgttgcggca gagaaaccag gatcacgtct cgg 403

<210> 38104
<211> 487
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-G7

<400> 38104

tttgggctga tttatgtgct tgtccgtcac caaaataata gacaacgttg tcccagacta 60

aaaggcgtca aatagagcgt ggtccgtccc agccgctacc gtagtcgcga cgtcctcctc 120

ggtacccgcc ggtcctccgc cacttactcc cggctcggaa ccttccgctc tcgctccggc 180

caccaccgga cggacaccgg ccatcggaat gcccacttcg cgcggcgcac cctcctcctc 240

gtataacgct gccctagaca tccgtgccgt aacggaagag cgggccgtct acttgataga 300

atatatagtt tcggatgagg ccacttttcg tgcggagttc gttatggtga atgaactttc 360

gcatagaagt aggtaggcga tgcctgagtc ggcgaatgcg gcgaattagg cgactattaa 420

tgcgctgcat aggaatcctt ttttgtagtc gatgttcncg catcataatt agctggngtt 480

atcgacg 487

<210> 38105
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-G8

<400> 38105

tttgggttga tttatgtgct tgtttatgtg cttgtcaaca ctaatcgcta cgcgagcaca 60

cgttccgata cctctaaaga gtagcggagt ttcgtcccga taaccctcaa ggcttcgtct 120

cttactcgtc tttcgtcgat tgattttaat ttggatgatt tctccgcttt ggagaccgtt 180

tatacgcata agatggattg gttgaagcat gagctgatgg tttgtagtcg gatgtagaag 240

catgtgacgg gtcgatgaat gtcccttcgt ctgctcgggt gttaccgcct ttccggaccc 300

gccgccggct gcacgcactt tcgacttact caggactact gcaccgcacc gcagcgcacg 360

cacgctgctg gttcattact gccgttactt attacagcga ggcggccgga tacgtcctgt 420

tcacacgtat tcgcgt 436

<210> 38106
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-G9

<400> 38106

cacgcccctg tcactgaggt gcgccgtggt tcttggcatc cccacggcga tctaccgccg 60

tggcggggct gcctcagccg ctgagctggt cacggcgctg tctctccccc ccactaagct 120

gccgttcctt cgccgnctgc tgcggctcct cgccgcgtcg ggcgtgttca ccgtcgacaa 180

gcagagcacg gaggaggagc ggtaccgcat cagccccgtg tcctacctcc tggtggacgg 240

catccctcac gaggaccaca tgaaccacac cgctctggtg ctcacctgca cctcgacgcg 300

ctacatcgag gcggggatag ggctggcgga gtggttcaag agggacgtgg tcacgtcacc 360

gttcgaggag ctgcacggng cgactctgtt ccacgagagc atggggagcc tcgacgcaga 420

tttccacgac atg 433

<210> 38107
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H1

<400> 38107

cctttgggct gatttatgtg cttgtttatt gcttgggccc ttagaacaca tggcccggct 60

ggtattacaa gaccgtctgt cggaagtcac gcatctgcca ctatcctcta gaaagacgtc 120

ggtctccact cgggtctttt cgcgcattaa gcgaatctaa cgaaacctcc acgtcgtaat 180

gaggtcacta agtatccgat cttataggaa agaagggacg aggtacatcc tacgctctct 240

tcgagaaccg tagaaatcat ccgcggaccg caccacctac acgataggga cccgatatca 300

aatccgtaga gggtacttaa gccggtcgtc gggaaggcat acaaattatc acggaagtaa 360

gtcgacttat gccccgcccg gaataaaaac ccgccagagg aatccaccga agtcaagtcc 420

gacgagccta cta 433

<210> 38108
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H10

<400> 38108

ccactcgtcc gattgaaacg ccatttttaa aaacaaaaat aataaaaaaa aaaaaaagaa 60

aaaataaaac gggccatatc taaataccat cctgacatac tcctttcatg ccatatcata 120

tactcttcta tcatgtctcc tacatctaat tgactgcccc ccgttctacc acttctttcc 180

tgcggcaccc ctgccttttc ccaattcaat ctcctttcct acca 224

<210> 38109
<211> 443
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H11

<400> 38109

cccacgcgtc cgcggacgcg tgggtccaat ctgcccttgc cgccgccgcc cgatccaggt 60

gtgtagactg ctcactcctc tccgctccgg tccgaatggc ccgcacgaag cagacggcgc 120

gcaagtcgac cggcggcaag gcgccgcgga agcagctggc caccaaggcg gcgcgcaagt 180

cggccccggc cacgggggggc gtgaagaagc cgcaccgctt ccgccccggc accgtcgcgc 240

tccgcgagat ccgcaagtac cagaagagca cggagctgct catccgcaag ctcccccttcc 300

agcgcctggt tcgcgagatc gcgcaggact tcaagacgga cctgcggttc cagtcgtcgg 360

cggtggcggc gctgcaggag gccgcggagg cgtacctggt ggggctcttc gaggacacca 420

acctctgcgc catccacgcc aag 443

<210> 38110
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H12

<400> 38110

ggcaaaactg gtggcaggca ctggtattac aaccgacgtg cagaccagct atgcagcgcg 60

gatcatgggg ctatctgtta tccccttcat catcgctcag ttcccaaaga tgttgaagac 120

ccaccacggg cagcgtctag ctatgttgct ggccctcatt gtgtcattct tgctcgtgct 180

ttcctactgt ctgtatcagg ttttccagcc ttggattcag aggaggaagc ttgcatacgc 240

aaagcacaag cacgtaatct ctgggatact gaggcacgcc cagatgcagt cactcggccg 300

gctgctaaac gacgatggca cgcccaatga cgacgtcatc agaaagctgt tccgcaagat 360

cgacatggac cagagcgaat ccctgtcccg tgctgagctg cacgccctca tcgtcggtat 420

caacttcgag gagggtgact ttgacaggac gga 453

<210> 38111
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H2

<400> 38111

ttatgtgctt ggtacactgt agagacgcat aaatgactta cccatacaca cattccatag 60

atatagttta ccagtaccgc ctaaggaagt ctcaatatag atgacgtcgt aaccaaacca 120

agtcattacg acggttacga ccataacata gaggccgaac ttcgatagta gatcgccagg 180

gtacgaaccg gacacaatcg atcgagaggg gtacatcacg cggatacgga ttaaaccaaa 240

gtcgtc 246

<210> 38112
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H3

<400> 38112

tttgggctcg tttatgtgct tgcttattgt cgtactggct ctgattttcg acctttgctg 60

ttatccgtcc tcccgacccg accgtaccgg gcctgcctgg cgttttcttt gcttcggact 120

cgccgtgtga gagtgtggta gtgtgtgaga cctgtttttc ctctcctctt caggaagtag 180

gaagtaagtt gattgtctgt cgagtgttgt tgttgacggt tgctgtggcg ttgacgaagt 240

ctcggagggc ggagatttgt ggtaaggttg ttgttgtggg gtttgatgat ttttcgtgtg 300

cttcggcgat ggcgattgct tctgggagtg ttggtttgcc gtgtcctact gcttctgagg 360

gtgatatggc tgttgtgtct acttgtggtg tgtcgtgtcg tcatgtttg 409

<210> 38113
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H4

<400> 38113

accgagacga agaggatact aaacatcccc cagctctaag gaaacggtac cgtccccatg 60

cggcggccca tagccaaccc gtaccgtatt gagcggcggc agagattgct taaactttct 120

actaggagaa cggcatttgg tattacctga cctactcgta gcggatatca cgaggaggtc 180

ttcggagtac gtcggcgcct tcgggtatac acacttatca ctaccgtcgc gtcacgaggc 240

cacgttctta ttataatatg ccgagcaaga gaccggtgag tatagggcga cacttcctta 300

cggagtatgt ccgctagcaa tctacgatac aaatcacgga gataccatcg tctacattaa 360

gaacgtcgac tacggaaggg agtcacctat aaacattccg cataatccag acgccaatta 420

gcataacgcg tctaaactcg tcactcccag 450

<210> 38114
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-H6

<400> 38114

tgcttgttta tgtgcttggt attctatggc ctatccctct gcgttgctgc gggagcggcg 60

cggctgcgcg gtcaaattcg cctgtggtgt gttatccgtt gcgtgatatg gtcgtgtagt 120

gacgcggtag atgtgtagtc cgtcatcatc tactgccgtg gcggctgctg ttgatgtttc 180

ttttgatcgg gtggcggttg tggtggtggg gtggcgtatg atgcttatgt tagctaagat 240

gcatgataag cgtactgtgt cgttgatgta nggtgttatg tcggtgcgga ttcatgatgt 300

gtggaatgtg atgtcggatg tggtgcctat gggtcttcct actctgttgc tgggtcgggc 360

ggttcggggt gcgaatgt 378

<210> 38115
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H8

<400> 38115

ctttgggctg atttatgtgc ttgtttatgt gcttgtagat acttacgcat agccttagcg 60

tagcaaaaga acgaatgcgg taaacgtaaa gaggacactg gtatccccgc ccccgcctac 120

aacccgacga cggtccaggc cgccgctgga actcactctt ttcgcagccg cataacgtta 180

aaacacagcc ggaagcccca gtcggcatat taccagggcg tcgcaccaat tccccccatc 240

tccgcgtagc aaagacctcc cccgctaaaa aaaaaaaaaa agggtggttg tctcagagga 300

cttaagtcca tgcatgtgcg tacgtgatgc tacagtctcc tcacagcgct attcaaacct 360

aacctatcgg ttgctgcccc ataatgctgc gatcgggaaa atttcggtgc catttaatcc 420

aactgttccg tagtatactt tttccctgtt agtcggtgc 459

<210> 38116
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-G3

<400> 38116

tgcttgttcg aaggaaaacg gaccgccgga ttaggattgg agtcatcaca tcgtcgctta 60

gacgagcgag agcgttccta cggacaagcc tacacgtttt cataaggaag tcgtattaag 120

ttctgtttca gaccacgtcg tcgtccgtag aggagaggcg tttatcattc ctccggtaaa 180

cgcccaattt cctagcgcaa agtaacgccc cgatatccag tagcgagtcg gcaaccccgc 240

cctcccttcc gttcaatcgt catactttgt agtcgcgctc ccagaaccgg tctcggcata 300

caagacgcga gttacggcca ccattagggt cagacccact cccgtctctc gccacctaag 360

tcgactaagc acctt 375

<210> 38117
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-F11

<400> 38117

gcacaatttg ccggacagcc cattcgcatt ctctacgaaa tctgctgcgc ttttgcatga 60

cagtttcact gccacggaga ccgagaacac cgtcgcgtcc cgtgttggcg tggatgccgg 120

tgtcgggagc aagatcgacg gtgggagcaa ccatctttcg ccccccgcgt tggaaatccc 180

ttcggccaac ttctacttct tccccatgca caaggtggcn ctcgatcacg gagccctggg 240

ggtggtaagg tcacccatgg aggggagtta tacccccca cctaatcata gaatactaga 300

agccaagaaa gcgatggtgg gatatatagg gaaaaaagga gtcgagtgtc agcatagtgt 360

tagctccctt ctggtctagt acctttttta gaggatagtt ctactaaacc acangagaag 420

aagatg 426

<210> 38118
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-F12

<400> 38118

agataaacca ccgtcagtcc gattccagat tcggatcaat atgacatgcg tgaaccaaga 60

aactggattg gttgaaccaa gtctatttcc tatgcttggc aagtgggaaa gggaacatac 120

aatggaggac atcctggcca gcttaaaaag ggagatgtca actcctcaga accgcaggct 180

gtaccaacct catgaaggta acgaagatca aagagtagag cagaaagggc tgtcccttag 240

atgtgtcgtc atgtaataat gtacatttga attgagcagc gagatgccga gcttgagcga 300

accctcttag ggcatgttta ggaacaatcc ccttcaattc ccttgctttc aaagaagccc 360

tgtaggaacc ctnctgtagc tcaccttaat cgcaataaag tgtcgatgac tgttaaattg 420

cctgcacggc tgcacaccat gtaacagcaa ccga 454

<210> 38119
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-F2

<400> 38119

gggctgattt atgtgcttga ctgtcttagt gtttctgttg ctggtagccc ggtccctgca 60

tctttgtcat tgagtcagga ggtacgattc ctgttggctt aatacgggca agatatgcgg 120

cacgggagtc gggtgtaagt ctaagattta tagaaggaat tagaggcggg tcgataaagt 180

tcataagaag agttactctg gtaatgagcg gaagaaattt cccgtcgggc tactctatgt 240

aaagggaact gcttccgaga agactggtac cgaggtcaag tagttcaatc tcgtcacttg 300

caagcgtgtc tgcgcatagt cggcgaagaa tgggaagaag accgtcgttc ccgcgttaaa 360

tgacggccgt ccgaatcata ctgaggagaa tgacgacgcg tcgaccgtcg gacctngctg 420

caagggttac gtcgcgggag a 441

<210> 38120
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-F3

<400> 38120

tttgggctcg tttatgtgct tgtggctgtg cgggtggatg tgcgggggtg actcgcctca 60

gggtcaggga gagcgatgga aagtgatgtg gtgtgagtga ggagggttaa ggtgaagagg 120

ggaagtattg tattaggatt tccgcctgat gttgttgttc tcgactcttg tgaggccgct 180

aggacctaac acgctgatta gtatacctgt catccttcgt atgtcgccgg gtaacgccag 240

aataatgtag gttccttaga tagtggcgaa gagtttcctg ctctcaagtc ctcctagtta 300

agccatgaag gccttaagtt cgaagattct taagaaatcg gacgctcttg ttacggtcgc 360

acataaggcg aagtccgctg ggttcgaagg cgaagagtat gagcccgacg t 411

<210> 38121
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-F4

<400> 38121

tttgggctga tttatgtgct tgtggatgtg cgggtggatg tgcgggtgga tctgcgcgct 60

attaatagtg ttcctgagtt actgcgtacg acggttaagc gtgatttttg ttacggtaag 120

catacggtac gtcgttctac gcattgcggc gacgcggcct ttaaggatgc gaatgtcgtc 180

gcggttataa ctaagattaa gtgtattact tagcctgcgg atcggcgttt gatcggtcct 240

aagcgtggaa ctaatcatta gttctttagt gctgcttttg gtggcgattc ggttaaggcg 300

tagtgcgttg cgcgtacgac tcttaatctt attagcgccg cggaggctcc tctttgtacc 360

gattataagc ctgattctac gcatgttaag tgtgttcctg cgtatcggca tgctggc 417

<210> 38122

<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-F5

<400> 38122

ggacctttgg gctgctttat gtgcttgttt atgtgcttgt ttatgtgctt gctccgcgcg 60

tagccatacc catagtcgcg aagaagatcg ccctctggtc ctcctcacca gcagccctaa 120

cgggtcacgg cgccgcctca tttataccgg gcggtacaat actaagagcc gtcgtctccg 180

gccctactca ccccgccgtc ctagaagtct ccgaatccgc cgaaaactcg ggaaacacta 240

acgatcctct cggaaagata aggtcacctt cagcgccgtt cgctgtcgca tccgacgtca 300

ttcccactac tcggacaccc ctacattctc tcagaatccc ggagaagtcg tagtcgtgga 360

gaagtacggt aaaatccgaa ccacacagaa agcccataaa cctctccgtc gcgctagcgt 420

ccactctaac tgtccggaca cgtcatgagt cacaccctaa cgt 463

<210> 38123
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-F6

<400> 38123

ctggctctgg acctttgggc tgatttatgt gcttgtttat gtgcttgttt atgtgcttgc 60

gtcactggcg tcgtaggacc cggaaatgcg tcacccgacc agaagatgag tgcttcgata 120

agcgggcatt cacacttcgc acggattacc cctccgcagt agcccgccct gtactcttac 180

gcaccctcta acccggagat cggagagaga ataatagaga gaaatcgacg ccgaggataa 240

ttacagaagc aaccggccat gtccgagagg aggaacccgg taaataggga tcacaccccg 300

gagagcgacc ccggcctcca cccgaaacct ccacgccgtg ctaacatatc gacaaccctt 360

aacgctcggc cgcgtcctca tgaagactta aaaccttccg gattaa 406

<210> 38124
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-F7

<400> 38124

ggctctggac ctttgggctg atttagtgct tggtaaagcg acaatctcgc agtcgactta 60

cccatagagg tacctcccct cagtatcccg tgggataccg aaccctagaa gtagaaaggc 120

ggaatcacag gtgaaaaaca cgaataaaca aagataagcc tacgatctgg aataaatatg 180

ctatgacgat cggccccaac cccgccaaga gaacctgact acccgcccga tacggcctag 240

cgaaacagaa attgctagcc ccagcagtac ttaatcaaag gacgcccata cgagtcgcca 300

cctctaaact ctatggctcg agtgggcccg tctgtttacc ggtaataccc ctaggcccag 360

ctaagcggta acaagtcgct tcccggcgag tataggctcg cataggacca tccgcgcctg 420

cgaccggcct cat 433

<210> 38125
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-F8

<400> 38125

gacctttggg ctgatttatg tgcttgttgg aacgatactt ccttagaccc tcctacctat 60

cctcgggcga ggagaacggt ctcagactgt aggaatcaca agtagtccgc ggaaatcata 120

gccgagacgg taaataaggc cggagccgtc gacaccgccg ggagggccgc cgaggactcg 180

aaagacgaaa gcgagtttca tagaagaacg gcgacggaaa taactgagaa ggcggcagtt 240

aatccgggcg tactagacac cgacgtctgc tcggaggagt cgtccaccga cggcactccg 300

cacgtccctt aagagtagat cagcgacgat gtanacgcca cgtcaaacgg ccccggagtc 360

gcggccaacg tatccggata gagagccaag tttcattcct tctagacncg cggcatcact 420

aagcggtgac cggaataata gagcgt 446

<210> 38126
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-026-Q1-K1-F9

<400> 38126

catggatccc cacttccccc accccaaggt ttcgaagcgt acgctacgcg cactgccctg 60

gggcgaccgc cccgccgctg gcgggtcgga ttgggtccga tccggatctg gatcagcacc 120

ggcatcgccg cgacaaggat gtcgaccccg aggcagcggc atacctgcac cttcggcgga 180

ggcggaggag ggaggcgcgc cgcctccggg tcggccatgc tgccccccgt ggtggtcctc 240

gtgttcctct tcgtggtcgc gccttcgctc ttcttcgtcg tgcgcaatga cggtcgcgcc 300

cacgctcacg tncacgtagc ctccgatcgc aagggtaaga atggcaatca agaagcagca 360

gcaatgaaga acctcaaatc taatttgccc aaggaggtgt ttgatgctat aactgctagt 420

caac 424

<210> 38127
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-G1

<400> 38127

tttgggctga tttatgtgct tgtttatgtg cttgtttatg tgcttgttta tgtgcttcga 60

aggtaattct atatagcctt aggagtagaa ctccttcaat ccttcgtctc ttccactaac 120

agagtctctg aatgacgaaa aattcttcga gctcagaagg tccgtcggca ccacttccaa 180

gaacctcccg gatgtaaagg acctcgtgaa aaaggaatca tcgatctagt aacgggcaag 240

tgcggattta ctcactaaac cgaagaccaa ggagctgccg tcggcgatat caggactcct 300

ggcctacgac gtaaggtaca ttctcctata agctaccgtc aaggccgtcc taaccgagac 360

attatgctga gaacggtaag actctaccgt taaaccatcg gagaatacga t 411

<210> 38128
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-G10

<400> 38128

acccacgcgt ccgagcggct cgtctacgac tacctcccca actgcagcct ctccgccatg 60

ctccacggga gccggggctc gggccggacg ccgctggact gggaggcgcg gatgcgggcg 120

gcgctgtccg ccgcgcgcgg gctggcgcac ctgcacacgg cgcacaacct ggtgcacggc 180

aacgtgaagg cgtcgaacgt gctgctccgc ccggacgcgg acgcggcggc gctctccgac 240

ttcgggctgc accagctgtt cgcggcgtcg acggcggcgc gggccggcgg gtaccgcgcc 300

ccggaggcgg tggacgcgcg gcggctgacg tacaagtcgg acgtgtactc cctgggcgtg 360

ctgctgctgg agctcctgac gggcaagtcc ccctcgcacg cgtcgctgga gggcgacggc 420

acgctggacc tgccccgctg ggtgcagtcc gtggtgcggg aggagtgga 469

<210> 38129
<211> 477
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-G2

<400> 38129

tttgggctga tttatgtgct tgggaggaag cgactctttc ctggttcgtt cccaggcaca 60

tatagggttg gtagtgttgt tttcgcgtcg gtaccctctc caagccccaa tatttagcac 120

ggaattacag tgttacggac ggacggacgg ctctcctcct cctcttggcc cgagcccccc 180

cggcgccggg caggtacatt cgctgctcgc tagtgcagat acaaaacaaa aggctctcgg 240

gatgtctgtt tacgcacgca cgcacacgac gcgaagcgac ttaaggcggc ctgtgcatca 300

cggtaacaaa tgcgcgggaa agtgacgcac tgctgacgat cgctgttgtt cgtacggacg 360

gtatgggaac ccatctctcg ggccaccaca taacgtggta gtcggtcacg tcgacgtcgc 420

gttaatcgtt actacccatc ttaaaaaaaa canaaatacc gnggcacgcg cgcgaag 477

<210> 38130
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-F10

<400> 38130

cccacgcgtc cgctcacgcg tccgcggact cgtgggcgtg ccgtgcccgt gtgcatcggg 60

gaaaaaacag cagcaggggc cgaatcggag ctccgccgcc ggcagatctg cgccggccgg 120

tctgctccgc ccagcggaca tggaccgcga cggccgcccg gggtggctac cgtcgctggg 180

cttcgccttc ctcagcttca actgcgggat ggccgtctac cgctcctggg acgaccccta 240

cgccgtcgcc ttcgtcctcg ccgcgtaccg ccgcctcgtc ctcctcttcc gctgcctcca 300

ccttctggag cgccgccggg accagcgcct caagctcgcc gtctggggcc tctccacgct 360

cctcacactc atgttctcgt acaagatcgc cgncgtgatn gccgcctggg cccagctgct 420

cgtctggggc at 432

<210> 38131
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D4

<400> 38131

tttgggctgc tttatgtgct tgtctaaata cgactaatca gtcgaggcta cccacacccc 60

ttaaccaaag accctcgagg attagtccac gctgaggcgt ataaaacgta acggcagtcc 120

cacctagaaa ttatccattt cagaggaagt cgccgaagtt ctaaaaggcc cttagaccac 180

ctttatgcgt ccgcctaatt gaaactcgga gcctcggaag cgtattgacc gtaattaatc 240

tcatcgggag gggatctagc attataacgt agcttaaagg cctccgctag cgcgtaatac 300

cagcgatcaa gtagtatggt tccggcatct acccgcaaaa ccgcaaggca tcgagacatt 360

actattcctg aaagactgaa aacaactcga ctcccggtac ttaactgcgt atgacgaggt 420

acgttactta ccccagcggc ccgtcgcctg ctatcgagac gtcgccgc 468

<210> 38132
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D5

<400> 38132

tgggctgttt agtgcttggg aaattatggt ggtgccttcg tctcccattt ggttgaaccg 60

tcgttggcta tttgagatcc gtagacactg actcgaccgt ggtacgactt gcctactcgt 120

cgagattggt ggggaagact gacggttaag caccatgctt tgtctgaggt ctggaaaagt 180

ataggccgaa catgaggcat attggtctgc ggctaactgg gtttcaagcc tataatcctg 240

ctgagccctg ctatataaag ccactcatag agacacgtcg gatcgccccc cctaaacgcg 300

cggatacaat cgacaacgaa c 321

<210> 38133
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D6

<400> 38133

ggacctttgg gctgctttat gtgcttgttt gagattactg atgagtactc cctcgtactc 60

gtaacggtcg ttgtcattgc gcttgctttt tgtactaagt cgggtcttta ggggtcagag 120

gctcttgtgt agggttctgg tcgtacgggt acgcttgttc ctcatggctt gtttaagttt 180

gagttcgata cgactaagtc tacttattat gttgctgttg ttggggctat ttcttccgat 240

attcttgata cgcatggttt gtatattaat gagacttcgt caggtaaggt gtcctaaggt 300

ggcgcaaggg agaaggctga gtcggttatt aagcccgttg ctcttcctgt tgatggtaag 360

tgtgagactt gtggcgattt ggtgcacgc 389

<210> 38134
<211> 489
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D7

<400> 38134

ggctctggac ctttgggctg atttatgtgc ttggatcccc gttctcggaa catccgcctt 60

tacaagtcac actcggttcg ccatattaga caacgattcg tcgttccaca tcctagcggc 120

cgacgacgtc tataaagtag gatcagaaac tcacgtcgtc gaccccgtaa acgatccaat 180

tactagtcac aatcatagtc ccgacttacc agtggaacac tcccctccta ccgacaatgg 240

cgttcctctc gccgacggcg caccgatcga ccctttgacc atcttcctag aggtagccgg 300

ccgtcccagc aattcgaata ttagtaagac cgactacgtc aaattctcag ccactctgta 360

caacggcgtc agcggcgatc atttagatcg tatcgattaa gtccacgaaa aggtagccgt 420

tgacggcgtg gacgctaccg atcgcttcgc ctaagcgatc aaagacggta catcgacacg 480

tacgagtct 489

<210> 38135
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D8

<400> 38135

ttggctctgg acctttgggc tgatttatgt gcttgagtag gctgagtact cctgatgttc 60

cagtccggac cgtttcgaat gattatccta ctaagtgtgc tctgcggcat gataatgagc 120

ggggtcatag taattgtgct gctgattcga cttgttatac gcctaagatt tagcaggtca 180

gcagagagac agaccctcgt tctttcactg cgggctgctt ttaacggttc ccggctgtag 240

attactcccg tcgtccgctc acgtcgagaa caaacgcgaa tggcgttttc ggatgtcgga 300

cttacgtcgg ccccggatat gtcgctcccc cgcgcccaat ccactcgtcg ttgcttcgca 360

atgaacctgt aagccccagc ctccccgcgt cccgccaaag aacaaataac gaggccctag 420

ccccggcggt tttaaaaaaa aaaaaaaagg gtggtt 456

<210> 38136
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-D9

<400> 38136

gtgctgcctg tactatacta acttgcaagt gttacgtcgg cgacggccag gcgcaccact 60

cggcggcccg gccagcccac ccagagacca cctagccatg gcgtccaggt gcttcttccc 120

cagggacgcg tccggcgccg acggccggca ccagcagtcg aagggcgcgg cggaggccct 180

cgagcagctg cgccacggcg ggcgcctcct gtcccgggag gacgtgggcg gcgcggtgcg 240

cgtcaggatc gtcgtcagca ggcgcgagct caagcagatg gtcgcggcgc tcggcgacga 300

cgacggcgct ggcgcggcgg cggcggcggc caccagcgag cgccgtcacc ggcagcgtgg 360

cgcgggcgcg ggcgcgggag cggggccggg cgccgagcag aggctgcagt cgctgcngcg 420

gcgcagcgcg cggagggc 438

<210> 38137
<211> 376
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-E1

<400> 38137

tttgggctga tttatgtgct tgctaggaag ccggcgtata ttccttcgga ccctagccct 60

agaggtcatc gggagataat ggaggagaat tcggataggt ctagggagtc tcacctggag 120

gccgaagata agaccgacgg gaccgatagg caaaccgacc cgttagactg gctggttgac 180

tggccttagt acctaattta caatgagtcc ggaatctccg cgttctaccg ggatctccgc 240

ataacgctcg ggcgcgcgac ccacacacac acacaaagtc gcaatacgca acatcggagg 300

acataactcc caataaagaa ggcggtggtc gccttaccta aaagatagna ccaagctttt 360

ggattaccta gtacga 376

<210> 38138
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-E10

<400> 38138

aggcaccaca ccttctcctc ctcctcctcc tagcacagct agcgcctgct ccccttcgcc 60

tgtgatcatg tcttgcagca gcggcaagtg cgactgcggc tccagctgct cctgcggcag 120

ctcatgcaac tgcatgtccc ctaacgtgga gaccgncgnc gncagcagca tcaagaccat 180

ggtcctcgct gcgccgacca ccaaggccag cgccggcggc ttcgaggcgg ccaccgaggg 240

cggcggctgc gactgcaaca cctgcaagtg cggcaccagc tgcngctgct cctgctgcag 300

ctgcaactga gcgccggccg gcccggcgat ggcgcgcacg agtcgacgga aggacgacga 360

cgagtcgtat aaatataata gcggcgtcta aataagatcc tgtcaactgc acccgccatc 420

atcgatccat ggtcgctcct ggggttcatg ttcatctg 458

<210> 38139
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-E12

<400> 38139

cttgctgagt tgttgtggac aaaaagagct cgaaagtggg tagagaaaac ggggggcaag 60

ccaaccacac tcgcagccag cctgcccgct cgcccgcccg ccattcttgc cgattcgagt 120

cgacgtcacg cctccggcgc ccccttcggt tgtcacctcg ggggtcgcgg attggtggag 180

gggaggattt gagcggcgcg gccatggata caacatctag ggccgccaag atcccgtcgc 240

tccaccagac ggagatcaac tgggataacc tcgacaagac caagctctac gtggtgggcg 300

caggcatgtt cagcggggtc accgtggcgc tgtaccctgt ctcggtggtc aagactcgga 360

tgcaggttgc ctctggggac gccatgggga ggaacgcgct ggctaccttc aagaacatcc 420

ttaaggtgga cggcgtgcca gggctgtacc 450

<210> 38140
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-E2

<400> 38140

ggacctttgg gctggtttat gtgcttgtct agggagtttc ctaagctcga ggttgccctt 60

tctgagaagg tctacgctct tacccttagg aggattgacg gtaagtagga gaagttaatc 120

gcttgtatag aactggacga tcaagggtcg gtgtgttacg gtgatacagc ttccttcata 180

gacgacccga agtgccgccg taagccctcg agatccgaca cccagccggt cagacccgta 240

actaacgtcg aagaacaaac atcacccgtg ataacggatc acccataacg ctgcgacgtc 300

cctggcgtca accgtatccg tttccgttaa actaagtacg cgaatcaacg gaacgtccta 360

gccccgcgta gcccggcaaa aaaacagaac acc 393

<210> 38141
<211> 496
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-E4

<400> 38141

tttgggctga tttatgtgct tgtcgtagcg tcatcctctg cccatcgtcg tcccgagcaa 60

aaccgttaaa gaaacctccg gacagaccgg ccgtacgggt aaagaaccca aaagctctag 120

acttatcgga ggaaggtcgt aaatcgggcc tagccactag cgaaggatag catgagaaga 180

caaagaaacc tactctgatc gtaagaagcg aaggcgttat aacctcgcac ggaggcggtt 240

gattatagta ctctagaaga gggcctccct ccgaattcat aaccacaata gacgccagca 300

tgctaacgta aacccggtaa gaggaagctc ccggattagc cactcgcgcc aaggagccca 360

ggatagagag cgaagtcgcg gaatccgtaa acgacatcta tcacggccca gtcggcgttg 420

cgactcttaa cgactaagag aggcgcgagt gtaccctaaa ggtctcctat ctcggcacca 480

cccggacaaa ccgtct 496

<210> 38142
<211> 491
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-E5

<400> 38142

tggtctggac ctttgggctg atttatgtgc ttgtgcttgt aagcgttctg tttgtatcga 60

tcactagcgc ctgcccgcgg agtattggaa tcatgaaggc tgcccatagg tgtcatgttc 120

tttcccctcc ttctgctggt gctgatagtg acgagaacga gccagtcact tccgaaccta 180

catactcctc ggcggaaatc acggactgtt atcctggtaa cgcgcgtgag tccgacacta 240

cgccttactc ggagaaagcg tatcctacgt cggaagagac ggcgacgaac ggccgtaccg 300

cggagataag caaatagaat actccggtat taacataatc cacggagaaa atccttcgaa 360

acagcgacac ttacccgcgc agcccttac ttatccggta taaccgttcg ctcgttttcn 420

cttacaaaac cctttctcgc acgcgagagc gtaaaataac tctcgcaatt acggagcacc 480

gaaccgattc g 491

<210> 38143
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-E8

<400> 38143

tggttgattt atgtgcttgt ttatgtgctt gaaaaaaaaa aaacaaaaca aaaaaaaaaa 60

aaaaaaaaaa aaaaaggaga agagaaaaaa aaaaaaaaaa aaaaagaaaa aaaaaaaaaa 120

aaaagaaaag aagaataaag agaaaaaaaa aaaaaaggaa gataaaatga gaaagataaa 180

gaaaattaca atagttgtaa aaaagagtaa gaggtataaa atagcacgga ggcgattcaa 240

tataaaggga tataagtagg acaacactag aattgatgtc aacaatataa gtcaggatgc 300

ttacgtaaat gtcgtaag 318

<210> 38144
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-F1

<400> 38144

gacctttggg ctgatttagt gcttggaggc cagtcacagt ccgtatactc acccactcaa 60

tcaatcaatc ggtcagtcag tctgacgtgt agagtaaagt gaaagtagta agaagtaaag 120

taacggagaa tttcgtgagc gcgtcagcct cattagtgta gcctattaaa tctattcctg 180

gaaattcgca tacttgttgg gttgggttgg gtagtaggga gacaattgag gagggtaggc 240

gtgattcgga taggagacat gcgagcaatc cttttgctca tgatggttgt ggttttgatg 300

ttagttccgc ggtttgtgcg taggggacta ttagtgaaac tgggaatgtg tattaatcgc 360

ctgctgacgc gcctgatatt gataggtcta agggtcttat gtctgctatt aacggtgcga 420

caatggttgg gctcgatgag cgggtgactc 450

<210> 38145

<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D3

<400> 38145

tgcttgtata tattcgccgc atcgcttaaa aaaaaccact ccctataaaa aaaaaaaaaa 60

aaaaaagaga aaggacaaaa agaaaaaaaa agaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

acacacatgt acaaaaaaaa aaaaaaaagg ggggttatcc caaaggattt aagcccagac 180

atttgcgtcc gtaatgatac agacccctca ccgggttttt aaaaccaaac ctaacggttg 240

gggcccaaaa atctagcaat cggaaaaatt tcggggccat taaatcaaac ttttccgtac 300

aaaaattttt cccagttaga cggtgcaaaa ttaaaaaggt ttgaataaac ggttccctta 360

aaaaaccgtt taattcaaaa ggtaaacgga attttt 396

<210> 38146
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B9

<400> 38146

cccacgcgtc cggttactcc aacctatatg tttttgcatg gataatgttt tttggctgag 60

gaattggctc gtcatattta tatatgcatt ttcactctca aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggca 179

<210> 38147
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-C10

<400> 38147

cgagtgcctt gcagatgagc tgatcaacgt tgccaagggc tcatgcaaca gttacgccat 60

gaagaagaag gacgagattg agcgtgttgc caaggccaac cgttgaactg agcttgtatc 120

ctggtgcact ctgcgctgga aacttttatg tcgctggcag tcgtatcggt tcttgtttta 180

ccaatgttta gagtttttg agacctatat gcggttttgg ttttcagtgc acaattaaaa 240

ttactgagta atgtagttga ttgggaacag aaatgtttgg tgcctggttt accgaactcc 300

aaaataaaaa atatacgtgc acagaatgct a 331

<210> 38148
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-C11

<400> 38148

gccctcagca accagcacca ggtccgtgtt tagatcgagt ccctctttga cgggaccgat 60

ttctcggagc cgctgacccg tgccaggttt gaggagctga acaacgacct cttccgcaag 120

accatgggcc ctgtcaagaa ggccatggag gatgctggcc ttgagaagag ccagatccac 180

gagatcgtcc tggttggtgg aagcaccagg attcccaagg tccagcagct cctgcgggac 240

tacttcgacg gcaaggagcc caacaagggt gtcaaccctg atgaggctgt tgcctttggt 300

gccgctgtgc agggaagcat cttgagcggc gagggtggtg acgagaccaa agatatcctn 360

ctncttgatg tggctcccct caccctgggt atcgagaccg tcggtggagt catgac 416

<210> 38149
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-C12

<400> 38149

gaggatcgcc gatgtcgacg gctcccaggt gccccttccg aggccgcggc gccccgcccg 60

ctggcaccgg ctacgtccgc cgcggccccg cccctgcccc aggccccgcc gacggcgcca 120

agaccctgcg caagcccgtc ttcaccaccg tcgaccagct gcgcccccag acgcacggcc 180

acaccctcac cgnccgcgtc atctccgccc gcaccgtcct cgacaagccc tncacgcaca 240

tcggccgcac ccgcgtcgca gagtgcctcg ttggagacag caccggcacc gtcctcgtca 300

ccgcccgcaa cgaacaggtt gaccttctga agccagatac aacagtgatc ttccgcaacg 360

ctaagattga catgttcaag ggtaccatga ggctggtggt ggacaagtgg gggcggattg 420

aggtgactca gcctgctgat tt 442

<210> 38150
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-C2

<400> 38150

gacctttggg ctgatttatg tgcttgtgga tgtgcgggtg actttagggt tgtctcggtg 60

gcggtggtgt gccgagacgg tcgatatcga tagtgtggag attgagaaag agaagacggc 120

agtggacgac gggggtaagt ttgtagagtc tctgaagagt gtgaggaaga agtcgtagaa 180

gtaggagtgg taggtggaat gcaaagtggt ttgaaaagtg gtggagaagg agtgatggtg 240

tgttgataca gagtggtgga ggtgcgagcg ggaggatgtc tccgttgttg tgttgctgga 300

cgaggtttgg gttgagacgg cggtggtgtg gtgggagatg tggtgtgagt gggcgggttg 360

gtgggtggag gagtgtgggg tgtgagtc 388

<210> 38151
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-C3

<400> 38151

gacctttggg ctgcatttat gtgcttgatt actctatctc ttgtcggctg tctatctccg 60

tcgtcttatt tcctatctag ctccagggct ccaccagtct caggtctcag tcagttgtgt 120

tatcttcctg cgcagttact agttcctcta ctgttattaa cggttatcgt tgaggcttag 180

attttgattg ctgcggtggt tgaggaagtg tttgcggcgg agattttgtt gttggttgct 240

gcgtttgagg agctcgtttt tgttgaggtt gaggttgagg ttgaggtcgt cgtcttcgtc 300

gactttgagg agtcctttgt ggttgagtag taggtagttg ttgaggtgga ggttgtggtc 360

ttcgtcggcg ttgaggagtt tgctgt 386

<210> 38152

<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-C4

<400> 38152

tttgggcttg tttatgtgct tgtttatgtg cttgggagtt tgttgtggtt gacttcgctg 60

ttgaggtaga ggtcgtcgtc tttgaggagt ctgttgtgga tgagttggag gtcttcgtct 120

tcgtcttcgt cggcttttag gagttggttg ttgaggtgga ggtcgtcgtc ttcgaggagt 180

ttgagaaggt tagtgagcga ggttgcgtgt atgtagtggt ggtggttagg gtttaggttt 240

taggggactg gtgcgtgtgt gcggtggagc agctcgctgt gtgtgcatac ggtagcacga 300

tatgggaccc cgtcgcctag catgtcatgg tcatcggtgc tctctcgcgc gcgcgcgtgc 360

gcgcgctgca tgcagtttgg catgcagtca gtagcgatcg ctgtgc 406

<210> 38153
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-C5

<400> 38153

ggacctttgg gctgatttat gtgcttattt atgtgcttgt ttatgtgctt ggcgacctaa 60

accgagcttt cgaataagaa gcacggacgt aacgctttcc catcctcgac gaatctccct 120

aatatttacg acgatatata gaagaccgcc gagaagcacc ttaatcttaa tactgaaacc 180

tacatcccta actagagtta gcacttctgt accgccattg aggatcctcc gttatccttt 240

agtaaaggga aactcgggaa ggacggtcgg cacttcttcg gctacggcga cgcgcccttt 300

ctcccgaaca atagtggaaa atccgatact ccaccggtct agggtaagga gcacgctccc 360

gtcgtaaatc tagataatcc gggcgtcaca gctgatacta agacttcaaa ttactcgact 420

aacaattaga atgagcatcg tacgga 446

<210> 38154
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-C6

<400> 38154

gacctttggg ctgtttagtg ctgcccattc tcctaatgaa tagcacctac atccgaactc 60

atcgtgctta tgttagagtc atataacgaa aatagggtgc ataccagacg acgctagatc 120

ctactactta accccgtcgg tatagcggta ggatagagca atatgcgccg acccggtcaa 180

agggcctctc cccgaggagc ccacgaagtg cggcggaaat tccgttacgt ccgtcgagtg 240

tccttcgtat gaggcggtac ccaagtctcg gaaagtgttc aaacacgggg tccgaggagg 300

gcacttagtg ccgatcgatc cggtgctgtg gacaaacaac tgaagtatta gacgagccgc 360

tgtcccgcaa tggaaacgat cngagcgacg ttggatatcg cggtgcgcga gtccccacgc 420

g 421

<210> 38155
<211> 482
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-C7

<400> 38155

ggacctttgg gctgatttat gtgcttggcg atggcggagc atgcgaatga gcggtggcct 60

tacggcgttt gcttgtgcgt atattgcgtg ctactcttat ttagtatgat gagattgcta 120

ttaatgatga gactgttgtt gattctaagg agtatgctac taagtttgcg actttcgaga 180

agcattctga tgagaagatt actccgtatt ctaatttgct tgggtgtcct gctactggtg 240

ggttttatgg tgatgttggt tctattggtt gtaagactac tactgatatc catggtggtc 300

gccgagttta tggtggcggt gttcctcatg gtaaggattt tattaaggcg gattgtagtg 360

gtgttcatgc ggttaggtaa gttgntaaga gtactgcggt tagtggatct gtttgctgtc 420

gttctgcgta ggcgctgcat gttactggtg cgttggagtt ttcgcttgcg cctgctgatc 480

tg 482

<210> 38156
<211> 396
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-C8

<400> 38156

gacctttggg tctgtttatg tgcttgtcag tagtcgaaaa ggagttgtag gcacggtctc 60

atatggagca cgtcaccccc acggatctga ggaaccctct ttgactgagt atcggtcata 120

ccgggaagtc aaggctaaac ccttccggaa tcaaacccac tactcatgat atataggtct 180

tgcataacgg tgggagagcc cgtatatagg aatgcgtttt tagttgctgg ccgctcctta 240

ggaaagccct attaagagcc ttaagtggta gtcattttgc tgtctaggcg aatcatgagt 300

cgaacgcgtc gggaatttga gggtttaggt ggacgtagcg tgtcacgtac cttacttttg 360

tactagtggc ggagtttggt ggtgcggcgt tcgggt 396

<210> 38157
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-C9

<400> 38157

cgttcccggc ctcaccccga gccagtcgtt tcgctagggt ttcgccgccg ccgccatgcc 60

gcgccgcagc tcaggaaggt ctgccccacg cccagctccc cgtgctgctt cactgaggaa 120

cccgccacag ccagcacgcc aggctcctcc tccagctcct gttcgagatg gtggtggctc 180

catgtttgga ggaattgggt ccaccattgc tcaaggtatg gcgtttggca cgggtagtgc 240

catggcacac agggctgttg actctgtatt aggtccccgg accatccagc atgagactct 300

tgccacagaa gctcctgctg ctgcccctgc tgctccagcg atgaatgctg atgctngcag 360

cttccattct aaggctttcc aagattgtct caacaactat ggcagcgaga tcagcaagtg 420

ccagttctac ctagacatgc tgaa 444

<210> 38158
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D1

<400> 38158

cctttgggct gctttatgtg cttggagaag tgcaatataa tgtagtgagt cgcacggtcc 60

aatttctatg gttgctcgta gaacggggtg ttactctgtg tcgtcttcga tttcgtcatc 120

gtcggttctg atggtggtta tgtgttcggt gcttgttgat cgtgtgggtg acaagccttt 180

ggtggggtgc gtgcatgtgc tgcgtgagga ttcgttgaat cgggtgtgcg ctatcggtgc 240

atgattgcta aatcttcgct gggtcctg 268

<210> 38159
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D11

<400> 38159

gatccgagca gcatgagtgg caagcagcat ttgtagccac agctcgctcg ctcgctcact 60

gaattgcagc tagccgcggt tgcggttgga ctggatcggc ggcagggcag ggcagggcgc 120

gcggcggtgg tgtggtggta gttgcagaag tgacggtcaa gttttcctcg ctccttgctt 180

cggccgagcc tccgcctgac gctactacca acatctccac ctgaatccat ctctatctac 240

ctcgcacgaa cgaacagaga caggggaggg gaggaattga agtgtaaccc aaggaaagga 300

accatgatgg tgtggcaggc ggaggaggag gattgatcca tccgtctacc catcagaccc 360

atccatccat cggtggtggt ggtggtggtg gctgctgtta ctcgctatca ccatctgct 419

<210> 38160
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D12

<400> 38160

aaagaaaaaa aaattttata aaaaaaaaaa tttaaaaaaa aaaaaaagga gaaaccaatc 60

aaaggaaaaa caaaatacca aaaacagaaa atcaacaaca tacaacataa tatccactca 120

acacactcac atcacaactg tacaaaaaat cacaacaaag ggcactcccc taaacctccc 180

tccttccttc caactccccc ccccatgaat caccttttta catgatcccc taaatccaaa 240

tatctctccc tctttctaac aaccctaaca cgggaaaacc cccgtatgcc cacccttaca 300

caccctttgag acccactatc aatttccccc tttcacgagg atacttacac ccccccccta 360

tctc 364

<210> 38161
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D2

<400> 38161

tttgggctgg tttatgtgct tgggaaattt cagttgttac actctatgac tccactccta 60

ttaagttgag ggaaggcgac gagtgacggc gtgtggtgcg gcgcttgtca acggtggtct 120

ggctgtgggt aagaagaatg ggctggccct tcctatcact gatcgtatta agttagcgga 180

ggataagact acggacgctg ttctgtctca gaagccttcg taggagtgta ctaaggctgt 240

tggtagtaac gtcggtaatt ctcgtgatct tgctattacg ctctgtgaga agattaaggc 300

tattgcgatt ctcga 315

<210> 38162
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B8

<400> 38162

gacctttggg ctgatttagt gcttggtaaa caaagacaag aaagaaagac ccggccgatc 60

ctccgagacg tatgtcaata gcgagggaga cacattagcc gtcgcgatag gcgatacagc 120

agtgtccgtc ggctcgaaag atataaccat cggcgaaata tctcgcgatt tagataagtt 180

cgcagcgtcc gaatgcacgg aacccttcga cttcgctacc aaggccgtca ccgaatttaa 240

gattaaagtc gacgttgata aaacggtcat cgggccaact aagtccgtct aagaagattt 300

gctaccttat cctctcagag atgaggaaat taattagatc gccaccgaag gaacgggaga 360

accgtactcc gacactaccg cagatagatc a 391

<210> 38163
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A5

<400> 38163

ctttgggctg atttatgtgc tctgttatgt gcttgtttat gtgcttgcgc tcccttaaga 60

ttattcggcc acgtccccgc cgagcccgaa gacttctgcg acgtcgagga ggtaaccgtc 120

ggatgggacg gacataatcc cgacggatat tgctcaagag cggaggtcgt ctacggcggc 180

agaggcaacg tccttctgta cgactgccta agcggtcccg gcggtggcgg cggagtatgc 240

tgcggcgcgc tgagatatct agagcactgc gcctccgcta tcggatcgtt cctcctcgta 300

ctacggtagg acccaaagga ctacacgtgg aaggtcggcg acgcccggcc tctcgaagcg 360

cactgtgaaa gtcgcggtat tgcacgaacc gcggatcata taaaccacga cgacacgaaa 420

cacgtcgcaa gcttacaaca tacctttccg ctctacgat 459

<210> 38164
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A6

<400> 38164

tggctctgga actttgggct gatttatgtg cttgtggatg tgcgggcggg aatcgaggca 60

aaacaatttt gtaattgtat ttatatttcg tgtgcgtctc tctcgtttta cttgtgtgtt 120

ttcttcttct tattgtttgc tttgttgttg ttgttgtttg gttgctcggc ggtgacggtg 180

cattgggtgg atgatgatca tgatcattct cctaaggcgg cgtctactgg tgatcttggt 240

gctggtaagc ttaattcgtc tctgtgtcct atgtgtaatg agcctagttc tgagcttaag 300

cttattactg gtgctgagcc tgttatttgt agtacttatg ctgaggataa agctgctaag 360

gtttagactc gggatattgc tggttaggaa agacattgtg tcactatgaa gtgtgcatca 420

ttgtgagtgg caggggtgtc ggctgcg 447

<210> 38165
<211> 414

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A7

<400> 38165

tcctgtatga gtgtaatatt acctatccat tagcctgaag tggaggtgat tggtaattcg 60

tggtggagac gctaggtagg ggtaagggtg gtaaggggtc tgggaagggt ggtgtgaagt 120

gctattggaa ggcgtcgtgt gataatactt aggggactat gaagttggtg acttggaggt 180

cggtgaggag gggcggtgcg aagtgtactc ttgggtcgac tcatgaggag atttgtggtg 240

cgtctaagac tccctctgag aacgctactt gtgatgtcgc gattcatatg gagtatgttt 300

gctgtaaaat tgctattgtc acggatgctg cgcatgtttc taaatgttag ggttgtatct 360

ctcacggtcc tggtggtcag gccaggcgcg ggcaaccgtt cgcttaggcg ctct 414

<210> 38166
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A8

<400> 38166

ggctctggac ctttgggctg atttatgtgc ttggtccggc ctacccgtct acggacctat 60

gcatcttggt tacttagccg ttcgcgtcgc ggttaccgaa gtctcgaaat cccactgtga 120

aagggatacc tttggttacg ctaagtaaac tgttttaaag ccttaggatg ggaccagggt 180

gtcggtagat agcttgacca caggggagac atgcggtccg gggacgacca cgggcattga 240

acctataaat aataagctat tgatcgactc gccttttgtt gaacgggggg ccggcgttac 300

tcctggtgaa gagcgttaaa agtgtggtac gtcggcgaag gctgtcggtg atgttactac 360

gacgctggtg atgtcgacta cgatgtttgg tga 393

<210> 38167
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-A9

<400> 38167

gtcagacacg cgtccgccca cgcgtccgcc tacgcgtccg cggacgtttg ggcgacatga 60

agctcaggga cgacctggag aggctcaaga agatcaggaa ccaccgtggt ctgcgtcact 120

actggggcct ncgtgtccgt ggccagcaca ccaagaccac tggcaagcgt ggaaaaactg 180

ttggtgtctt caagaagcga ntagctacat atctatcgac aaatctcaga tgtactagtg 240

tttgttcttg ttcaaactgt cttgatgaag ggtttctgtt gggacagttt cctgaaatta 300

tgttttgccc taggataatc tngcagttat ggaaaccttg tatattgtat cctgcaattt 360

ggtttttgca acttataaga gtaattntat ttgatgagtc ttatgctg 408

<210> 38168
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B1

<400> 38168

tttatgtgct tgtctcctcc tattctatca atattagtca gcaatctccc tctcttcgta 60

acaacggttg tctgtcttct tcttctttag ttgtagtcgg ctgtggtggt ggtggcttcg 120

gtagtggtgt cgtcgtcgtc ggtggtgggg gttgggatgg tgctggtggt ggcgagtcgt 180

ggtgaggcga tgctgctggc ggtgttgcgt tctgggcatg tgacgggtag tgtggtgctg 240

tttcttgtgg tgcgtcgtag tggggcgtgt ctgtctaata gttgtgtgct gctggtggtg 300

gattggtagg ttattcgtaa tcgttctaag agtacgatgg gttggtctgg tggtggtgct 360

agtacggtta atgttgataa ta 382

<210> 38169
<211> 153
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B10

<400> 38169

cccgcgcgtc cggttactcc aacctatatt ttttcgcatg cataaggggc tatggctgaa 60

gaatcgtttc aaaatattta tggccgcata atcactctca aaaaacaaaa aaaccaacaa 120

aaacaaaata aaccaataaa aaaaacttaa aaa 153

<210> 38170
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B11

<400> 38170

cttcaaatga gttccacgca tcaagaagtc tagattccag gaggcctaaa ataggagagg 60

agggcgcagc ttgattcaat ccatgtcaag tcagaggctg ctgcgaggtt tgcacatgca 120

agtagaattt agatggtcct gcttcgcttt catgtggatt tatcttgcaa atggtatgtg 180

gatccgttcc agaggcaatg agccttgcag ccagtttgca gtataaaaaa cccaattatg 240

tccactgctg gttcgacgca gcgtgtgccg aggatttcta ctgccaagca taagaaagta 300

tttgaaatca agaacttgca ttcattcaat cataatgtgt ttcctatcaa gcataagtgt 360

gtgtgttttg tttgatatct gctttaatag gagaatggtc ttggcacccc aaaaatgttc 420

ccattctact ttcgggc 437

<210> 38171
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B12

<400> 38171

cccacgcgtc cgtaggaatc tctgacaatt atgctggggc cgtggagtct gtccaaaagt 60

gagatcttct gaaagataca aaagtgtctc tttctgcaaa ccatctgcag aaactgtgtt 120

tatcttttca actaaccaca ccgcttgggc acacatttaa acctcaccag gtgttcttga 180

aattgaggca tgagagtaag gttgaacact tattcgtggt acctggctct gcaaggcagt 240

tcaaaattgt tcttgacttc ctaggtttgg tggagaaatt ttactacctt tctggaagat 300

atgaccttga gcttaccgtt ggtgatgctg taatggaaaa ttcatttcta cgacctcttg 360

gccatttgga gttggacctg ccagatgccc cagaaaaagc cccacgtcct tctgcacaag 420

ctgttgaccc attctcaaaa tttg 444

<210> 38172
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B2

<400> 38172

gacctttggg ctgatttagt gcttggtcta atagggttct cgtacacgtc gtacgcgagt 60

catccgtagg ttagttacgg tgtgcaggat atcctcgccg ttcgtaagtc gaaagtgtgt 120

aatgttagca cctcgccctc gctgtcatag aaaaccgcat aagccccgcc accctccggc 180

taaattcggc acatgtatct aggagaaccc ctggccagtg cattgcatag gtagtcaaaa 240

ttgagcaatc gccccgatcc tagcccgtga acgagacgtc ccgccccagc tggaaggacc 300

tattacgtca cggcagtggt ggttggtact tggcgagaga cggaggactt tcgaattgca 360

ttgtgttgtt gttacgcgtt acgtttacgt acgtcgcgat caattcgtat gccc 414

<210> 38173
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B3

<400> 38173

gacctttggg ctgatttatg tgcttgggca cgccaggagt ctagcgttcg gtccccatcc 60

gagtttaggc gcccccaatc ccgccgcgtt ctagcccacg tagcacgata ccggccacgc 120

gtaactcttc ggtacgctta taaattagta catcacgcat cccggttagt tcgactcaat 180

aacagggctc ctcggagtcg tcgcccactg ataccggtta attttaataa cgacgcactt 240

ttaccgtcac gacaacgcca gcttaacgac gctctaggcc ttctcgcatt agctccctaa 300

ttacgaccag gagacctcgt ccgtcggaaa gccgggaata acctctcgcc gaatccgtca 360

cgccgcgccg cttcacgcca agcggagcct tcccagacct gagtttgccc caccataaaa 420

aaccgcacaa ggagcttcaa acctgcgaaa tcaccctgcg aatcaact 468

<210> 38174
<211> 438
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B4

<400> 38174

tttgggctgc tttatgtgct tgtggaagcg gctgttgtat ccctcgaggc ccctagccga 60

ttcagtaact tcctcggata tcggtcttta agtagcggtt attacgcgca tacggacgtt 120

aagtactgcc cactagggga agttaacgta gcattctcgg acgctcaccg tacctacata 180

gactcctata gcgtctgagc gcccgtggcg cgtctcccgc ggaacgcact tcaacgcttt 240

acctacactt tacatcgtcc ctacctatct cgactcaaac tcgcctagac aggcgcccac 300

aaggcttagg acctaagaag ggcgaccccc ccccgaaacg gtcatccact acaggattag 360

tcggcataac agtacctgaa taatatcgtg accgaccccc gccttcaaga cgccacctaa 420

cgcatgccga tcattcgt 438

<210> 38175
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B5

<400> 38175

ggacctttgg gctgatttat gtgcttgttt atgtgcttgt ttatgtgctt gcctatctgc 60

ttgtttatgt gcttgtggat gtgcgggctg caaccccaca cgacgaaacc acgcgtactc 120

ctagccgccc ccgttctatc gtctcgcaag gatacacaaa accggcaccc gcatccctca 180

aggcctcttc cggaacggca gagccccata gggaattcct tactactagc cgtcgataca 240

gtctgaatct gatgccctcc tcctgttagc cgtggtctcg gacaaatctg aagtcgattc 300

acttaagcct gatgatgggt ttcctccttc aggttaacct agtccggtgg acgcagtgca 360

taccatgacc tcggaaaggg cctagacaca tcacctttac t 401

<210> 38176
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B6

<400> 38176

ctttgggctg atttatgtgc ttgtggatgt gcgggtggat gtgcgggccg atcagcattc 60

tcctgtgtct cctaatgaga gttagccgtt tgggttgatt cctgagtgta atcatggtgc 120

tcctcattta aattagtaca aggcgcatga ttctgagcct gcatctggtg tgcgtagtcg 180

tcgttagggt actggaggat ctcggcggta gtgagaatgg tagggtgagt attagtattc 240

aatcgctgag ttccgcgaac gtgatcatta cgtaggtgcg gagtgcggtg gatgtaacgc 300

gtcgcgagta ctggtcttag gtggtgtcgg a 331

<210> 38177
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-B7

<400> 38177

gggttgattt agtgcttgtg aacaactctc ctcctattct atcaatatct agtcagtaat 60

ctccctctct tcgtaacaac ggttgtctgt cttcttcttc tttagttgta gtcggctgtg 120

gtggtggtgg cttcggtagt ggtgtcgtcg tcgtcggtgg tgggggttgg gatggtgctg 180

gtggtggcga gtcgtggtga ggcgatgctg ctggcggtgt tgcgttctgg gcatgtgacg 240

ggtagtgtgg tgctgtttct tgtggtgcgt cgtagtgggg cgtgtctgtc taatagttgt 300

gtgctgctgg tggtggattg gtaggttatt cgtaatcgtt ctaagagtac gatnggttgg 360

tctggtagtg gtgctagtac 380

<210> 38178
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A3

<400> 38178

gggctgattt agtgcttgga aagaaacagt ccctaagaag taaaacgcgt cggaagacac 60

tcatgtcggc gtctacaccg caacagatat agtcgtcgtc tacgagaaaa caccggtatc 120

gaccgaggta ggcaatacag aattactaga atcaaccgta gacacggacg tttagacagt 180

aaaagtaaag gaagaagtac cgagcagaaa agacacttcc gacaaagcag aaagacggac 240

gctcgtgcgc gaagaagaga gtcggtccga agaccacaat tgggacgata ataggcacaa 300

tctcagttga ggcgtttatt cgaactcgaa gtgcgtagaa aaagtctgca cttccgccaa 360

taagacctta gtatccgccg aaatctcagc ggtaaagatt aaggtacggg aggagaaatt 420

gcgctcgctc cccacgcacg 440

<210> 38179
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-025-Q1-K1-G7

<400> 38179

gggtttttga ttttagccgc cgccgctgct catctcacat ccctcgagaa gacgcctgcg 60

tgctcgccga tcgatacgat ggccgtcttc tccgacctcc acaccgccga cggcctcaag 120

tccctcgagg ctcacctcgc cggcaaaacc tatgtgtctg gtgactccat tactaaggat 180

gacattaagg tcttcgccgc ggtgccgtcg aagcctggcg ctgagtttcc taatgccgcc 240

cgctggtacg agaccgtctc tgcggctgta gcctcaagat tccctggtaa ggctgttggt 300

gtaaatctgc ctgcgggatc agctcctgcg gcagctgctc ctgcggatga ggctgangat 360

gatgatgacc ttgatctttn tggtgatgaa actgaagagg acaagaaagc agctgatgag 420

cgtgccggc 429

<210> 38180
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G9

<400> 38180

cccacgcgtc cgcccacgcg tccggtttag tgaagaactg ctttaggaga aacttgcccc 60

gctttgtccc cttattagct aatcttattc gctgcgagca taactctgga gaagttcaag 120

ttgcactgta tgatatcttc caatcatcaa taggccccat aatatcagca tagcgtatat 180

tgtttcctcg ccagttgtac aattttgtca gattgtggta taagaaaagg gtacagcttt 240

acagtactgt aaatgattca tggttgaggc atttctggtg ttgaagctac atggaacatc 300

gacccagatg tctaaacaag gtttttgctg cgcacatttg ccattctttt ttctaacatt 360

cactgggtaa tcattgacac gttaaagagg atggacattg gaataagtcc ctaattcctg 420

ttttggtgtc atttcccccc tttcatcttg gctct 455

<210> 38181
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-H12

<400> 38181

gagtttcttg gagtctatat tgtgccatat ttatttattt ttctttcaat atcttatggt 60

gttatggatt ttcatccttt tgctagaggt attgtttttg tattaactat taaagcaaac 120

acatgtattg tctcactgag gacgcttatt tatgataata tcttattgtt aaaatgaggt 180

caggactaac atgctcatgc ttgtcttaga tggtaaggaa gtcagtagaa ctcgaagaca 240

acatttcttt tgatagcata tgatattatc agattatttt tattgagaat gcctggattt 300

tttgggggat ctgatatatg atgcactttc tcaggcactg cggtttatac agaattgttt 360

tttagactat gtgctttatg ctcccacccc ctctcttttc catacaaaat gc 412

<210> 38182
<211> 286
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-025-Q1-K1-H3

<400> 38182

cccacgcgtc cgcctggagc gagtgcaggg tcgcggcctc gtgaccaagg cgtgggtgga 60

gcaggaggcc ctgctgaagc acccggccat ggggctgttt ctaagccaca gcgggtggaa 120

ctcggtgacc gaggcggctg ccgccagcgt gccgctgctg gcgtggcccc gcggcggcga 180

ccaccgcgtg aacgccatgg taacggtgag cggtggggtt ggggtgtgga tggagcactg 240

gagctgggac ggngaggact ggctggtgac cggggtggag atcgcg 286

<210> 38183
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-H4

<400> 38183

cttgcggacg ccgtgcggtt cctaatggtt tgttggatga ttgggaggag aatggagctg 60

ttattactgc aaacagaacg aaaggtgacg acctagtaat cacccatctt ggtgactgtc 120

tctggaaaga aaaaaatgag attgcagctg ctcattcgtg ctatttagtt gctgaactaa 180

atattgattc atactcggaa agcgcaaggt tgtgcctcat tggtgcagat cacttgaagt 240

gtcctcgaac atttgccagc cctgaagcca ttcagaggac agaggtttat gaatacgcga 300

aggtgcttgg taattctcag tatatcctac taccctttca gccatataag ctgatatatg 360

catacatgc 369

<210> 38184
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-H6

<400> 38184

acccacgcgt ccggctgcag caagagtatt tccttcctga tggccttcta tattcaccca 60

caccagggta tgatcaacca ttcagctcat ttgacagagc actgacacag ccaaataatg 120

ctcctgggtt gtttggtcaa gggagtctac cactggcttc tggaatgcat catggaccga 180

tgtatggtcc tggatcctac aagggacgcc agtatggtag caaatttggt ggcactactc 240

caagttggag ttctgctggc cgcagatttg gtactttcga cttgagtggc aatcaacaaa 300

gggggagcat ggtatttggt agtcataatg gctctctgga gtttatgaat gagcaaaacc 360

gtgggccacg tgctacaaaa c 381

<210> 38185
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-H8

<400> 38185

ccacgcgtcc gcttgcggac gccgtgcgtc ctcaagcggt tcggcgcgct ccggttcgcc 60

aaccgcgccg gcccgctcta cggccacctc tccagcaccg actccacggc cacatcgatg 120

aggcttacct gggtgagcgg cgacgggagg ccgcagcagg ttcagtacgg aggaggcaag 180

tccggtactt ctcaagtggc aacgttcacg cggaatgata tgtgcagtag ccccttgtta 240

ccaagccctg ccaaggattt cgggtggcat gaccctggct acatccacac ggccgtcatg 300

accgggctcc agccttctca atcctacacc taccgttacg gaagtgattc cgagggttgg 360

agtgacacat acacattcag aatgccacca gctgcaggct ccgacgagac atcatttgtg 420

atctacggtg atatgggga 439

<210> 38186
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-H9

<400> 38186

ctcacgcgtg cgggctaggc gcatggctgt tgaggtgctg gaagtaccga gaagcaatgg 60

gacagtacag caaggttctg gagctgtcca aggagacagg tgaagattcc ggttgcaccg 120

aggcctacgg tgccatagcg gactgctaca ccgagctggg cgacctgaat cgagcggtga 180

acgtgtatga caagtacata tcgaggctgc atcccggcga gtaaggtaga tttgtttaca 240

gacgagacag cgagtgcctt actttccgta cgttgagact tgcgttatga ccgtcttgct 300

aaactcgctg tacgacttgg atcgttacga gaacgattcc aatattcgta tatacacaac 360

tactgattta atgccaccag ctgcaggctc cgacgagaca tcatttgtga tctacggtga 420

tatggggaaa gctccgctgg accca 445

<210> 38187
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A1

<400> 38187

tttgctgatt agtgctggtc agggcacgca gtttgccgct taactacagc caatgatgga 60

gccacgggcc tacgtcccgt cttatgaagg ttcgtcgcga cccttagtat ttcgccccta 120

tacgaggagg agaatactca gaaactaaaa ggactcttga gcgcaatcaa agggcatccc 180

gagaaataga aacg 194

<210> 38188
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-A10

<400> 38188

gaagatttgg tgttttggac ctgagaccac tggcccgaac atggttgtag atatgtgcaa 60

gggagtgcag tatctcaatg aaatcaagga ttctgttgtg gctggtttcc agtgggcatc 120

aaaggagggt gcactggctg aggagaacat gcgtggaatt tgctttgagg tctgtgatgt 180

cgttcttcat gctgatgcta tccacagggg tggtggtcag gtcattccca ctgccaggag 240

ggtcatctat gcctctcagc tcacggccaa gccaaggctg ctggagccag tctacctggt 300

ggagatccag gccccagaaa atgcacttgg tggtatctac ggtgttctga accagaagag 360

aggtcatgtc tttgaggaga tgcanaggcc gggtaccccg ctctacaaca 410

<210> 38189
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A11

<400> 38189

gacctacccg tcctcaagag cttccgtttt ctacctcaga ccattttccc gaacatgggg 60

gtagatatct acaagtgagt tctaaatctc aatggagcca acgattctgt tgtggctgat 120

ttccaccggg catcaaagga tggtgcactg gctgacgaga acatgcgtgg aattcgcttt 180

gaggtctgag atgtcgatct tcatgctgat gctatccaca ggggtggtgg tcaagtcatt 240

cccactgcca agacggtcat ctatgccttt catctcacgg tcaatccaat gctgctgtat 300

ccagtctacc tggtgtagat ccatgcccca gaaaatgcac ttggtggtat ctactgtgtt 360

ctgaaccaca agaaaggcca tgtcttt 387

<210> 38190
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A12

<400> 38190

gcagcatgaa gagggagatc agcgagacct acgacaccct ccgcttcggc ctcaatgccg 60

gcgtcaaggc cgacctcgcg ccgccgcacc cgctccagtc cagcatccaa tcggaggcca 120

agttctgggc ggacaagaag aagtttggga cagaggccat ctacggatcc gccttgaaca 180

tccgcaagga tctcgatgcc caaatcctct caaggttcca aaggcccccc ggtgctttgc 240

catcatctct gcttggatat gaggcactga caggttccct agatgatttt ggttttgaag 300

attatcttaa catgcctcaa gattctgaag gtttccgtca acctgacatg caccacggaa 360

tggaggttcg ccttggtttg tccaagggac ctatctgccc tagcttcagt tgaggcagtg 420

aatgtagttc tgcggttctg ccgcacgttg atg 453

<210> 38191
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A2

<400> 38191

gacctttggg ctgctttatg tgcttgttta tgtgcttgtt tatgtgcttg agatagccta 60

aaccttacat ccctacgtta cgggatcagg acttgacgaa tcccataaga acgtcaggga 120

gaatcgcggc ggaaagcaca gcgtcttatc gaacgtcgca cgcgtagagg tcgcttaagt 180

cactaataac cgtatatggg acactaacaa gtaacatact ccggacttcg tccgtttgga 240

cgacgactcg ccgagtttta agatcgcagt agagatagac ggaatgagta ggccgacgtc 300

agagctcgta gacccctcat ccggccttaa acgcgtagaa gtccacatac ctcacttcat 360

gtccggggga acgacgacat agcctaggag agttctggca cttgtaaggg gataaccgga 420

gtacggaaat gacatagtta cgtaccgttc cataaccacg aca 463

<210> 38192
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G6

<400> 38192

ggaggtcatt ctggatttct ggtttcctac agaaggatta aacagctagg ttagtggaaa 60

gggatgaaga aagatatcca tgcctatgtc cagacatgca atatctgcca acaggccaaa 120

ccggacagga ccagctatcc cgggctgctc gcgcctctac ctgttccccc gcatgcatgg 180

cattctatat caatggactt cattgaaggg ttaccgaagt ccggaacaat ggattgcatt 240

ctggtggtgg tagatcgatt ctcaaaatat ggtcatttct tggcgcttgc ccacccttt 300

tctgcagcaa aggtagcaaa acttttcttg gataatatct ataagcttca tggtatgccg 360

gacaatatag tatctgatcg ggatagagtg ttcacaagtc tgttctggca gcaattattc 420

actct 425

<210> 38193
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F1

<400> 38193

cttcatcgac cccgtggacg agtacctgat tcagtacctt atggactacg aggacaagag 60

gttcgagaac gtgtccaagg agggactgaa gctgggcaag gactcgaagc tcaaggagct 120

caaggagtcg ttcaaggatc tgtctgactg gtggaagaag gccctggaga gctagaactt 180

agactctgtg aatatcatca accggctgca tgaca 215

<210> 38194
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F10

<400> 38194

ctcgacttcg aacgccaagt ggagagccgt cgcttgtccg gcacacctcc gcgagaagtg 60

gatgcacggc tgcgcgtcgc tcgacgggaa ggtcgttgtg gtggcggacc gtggcggctt 120

gtcctacgat ccttcggcgc cacctgcgga ggcgtgggca ccggtgtcgc cggtgcttga 180

catgggatgg aagggccgag ctgcagtggt tgagggaatc ctctactctt acgattacct 240

gggacaggtc aaggggtatg atccggacac tgattcttgg agcacagtgg aggggttgga 300

gagggagcta cccaagttct tgtgcggcgc cacgcttgcc gatgttggag gattgctcta 360

cttggtttgg gaaggaaagt ggaaagggaa attgaaaggt aagatggacg ttaggagcat 420

ggtaatgatt gaat 434

<210> 38195
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F11

<400> 38195

gcggtccgca aggcacttac ccagaaggca tatcccatgc agcttgtgtt attgagcagt 60

agcatgcgat ctattgcgag tgcgagttat gtagacaaga gattagtgga catgccatat 120

gcagacgctt actatgattt atacactagt tgtcaaacta gtagtcaatc tgtcattgca 180

aggagccttc tcatgagaag gaccatgcaa agtggcctcc acaacgggtt ttagaacagt 240

acgtactcca aagggaagtc cgctggcaac actcttagaa aatctatgat agtatctagt 300

atactgttca ggtagctgat ctgctacacc aactacttca tcctaatgct aaatatcata 360

accattaacg caacgaagac actcatggcc atatgttttg ccatgaact 409

<210> 38196
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F12

<400> 38196

cccacgcgtc cgcccacgcg tccgaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa 60

agaaagaaaa aaaaaaaaaa aaaaaaagga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacaaca gcac 174

<210> 38197
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F2

<400> 38197

attattttga agctctaccc cgcagtatat aaaatttttc agtttcagca tctactacag 60

acacagggag tcttggaggt gatggaagtg agaagtccaa gcctaactta gtgctaagta 120

atattgattt gagagagatg cctaataaga agctatctgc ttctgcacca ccatttaatc 180

catctccacc atctgtactt agcccacttt ctggcaatgt tggtctcccg gcaccaggtg 240

ccattccagg agtagcacct tggcctgtga atgtatccct gcatactggg cattcaacta 300

tggtgccaaa gggtccttct ttgtgcactt ccccttatca tttataccct tct 353

<210> 38198
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F5

<400> 38198

cccacgcgtc cggccctcca tgtcctggcc acacagtcgt tcgtcgcgcc gatcgcccag 60

gaagatctgc gatgcgctcg tcgttgccga gatcgcgatt cgtttatgag cttcgaggaa 120

tcgatgatca agcatggcga caaagtgatc gaactcttcg agttctacga gatcgaagac 180

cctgagcatc tgtttggtga aggtgccttc ggtgcaatct atgcttaggt aaagaagaat 240

gcgtcgaggc ggatctccag gagttccaag acttcgacga gttcgaggat taggctagcg 300

acctccccca gtcagctgcc tgtggtgggt ttatttacgt tggctacgtt tctattctgt 360

gtactttgat tatattatgt aaatgactct agtctttaat attattactc attctatatt 420

gtt 423

<210> 38199
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F7

<400> 38199

cctgtcccct cgttctcctc cgcctcctcc tcccacctcc ccacacgggc acacctgccg 60

tccccgtcgc cgcggaccca ctcccatggc aaagctcccg cgtctaccct gctcgtttgc 120

cgttctcgcg ctcatgtgca tcatcccgct cacagcgccg cggcctgcac tgtcctcgcg 180

cgcggcccca agggacggtg tctccttcgc cggcgcaggc aacacgatac atcaacttct 240

taaagatcac ggccttcccg gaggactgct cccgcgcggc gtggagtcgt acaccctgga 300

cgagtcgacc ggcctgctgg aggcgcggct gtcggcgccg tgctacgcca cgtacgacaa 360

cggcgaactg gcctacttcg acaacgtggt gcgcggcaac ctcagcaagg gcgcgctccg 420

aggcgtggag ggcc 434

<210> 38200
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F8

<400> 38200

actgactcca cccacccgcc cgctgccttt tccggatctc gtcggactcg gatgcgccgg 60

accacccccgc gccgccgccg cgcagcagca gcagagatga gccagcagct ccctgcgaac 120

ctagtggaga tcatggagca gagaatgaag ttgatcgagc agaggagcgc gtacctccaa 180

gagcaaatca accagacagc cagccgcctc gccggaagag tactcgaggg ctaacaagga 240

gttccgcaag ctggagagca ccatggagtt gatcaaagac ctgagatcga aacaggagga 300

aatcgagggt ctcaaatctt tggtagcaaa tgatcatgaa gagaaagaca tgcgtgagat 360

ggcagaagag gagcttcttg tggctgtcga ggaagagaaa cgattgcagc atgaactgtt 420

tagat 425

<210> 38201

<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G1

<400> 38201

cggacgcgtg ggcggacgcg tgggcccgag cagatttttc agacattgct atagctgtcc 60

gagagggtgc tgatgcagtt atgctttcag gagaaactgc acatgggaaa tttcccttga 120

aagctgttaa ggtcatgcac actgttgccc tgagaaccga ggcaactatt cctggtgggg 180

aaacacctgc agaccttggt caggctttca agaaccacat gagcgaaatg ttcgcatacc 240

atgcgacaat gatgtcaaat acccttcgaa catcaatagt ggttttcact aggacgggat 300

ttatggctat actgcttagt cactaccgtc catctggcac tatttttgcc ttcacagacg 360

aggagagagt taggcaacga ttggctttgt accaaggtgt atgtccggtt caaatggaat 420

tttctgatga tgctgaaaag acattt 446

<210> 38202
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G11

<400> 38202

aaacgaaaga gcccgtgtga accggagatt gatttattag aggaaaaggg agacataaag 60

gggaggccat tatcaagaaa ccatgagttc taggttcgca atccctaatc ctgatctcac 120

ttaagcgctc gtgagctctc tccagtggct aaagattgca gatttgagtt atagtccaag 180

aaacgggtgg tggtccgcca tggaggtgag gtccgagcaa gggctgatgg cggtgaggga 240

tctattcggt atgccaaaga gcccgccggc gccggtttcc gggccgccag cgtccgccgc 300

catgcaaagc gtgcgcatgg cgtacacctc ggactgcacc gctttgttc 349

<210> 38203
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G12

<400> 38203

cccgcgcgtc cgcttactag gaatagcaat tctgtggtct gagttcctta agtcgccgag 60

caacgtgctt cattgtgggc ctagaagaaa gagaatcaac cgtacacttg atgcccaggt 120

gtagaatctc aacaaggtcg tcatgtgggg ccacatccca cagcccttct ataaagaatt 180

cacgagctcg acccttttgt aaaagcatgc aagcccaggc aactatgttg aatccattcc 240

cgtaaggaga gaaagaagga tccagtgcct ttttgtctga aatgagttca agaagtacaa 300

ctccataact atacacatac gccttatcat aaacgcggca tgtcatcgca tactctggag 360

ctaca 365

<210> 38204
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G2

<400> 38204

ctaggcgtcc ggggatggct attggaagtg gtttgctggc tacctgtcct ctggtggtgc 60

tgctggtgct gcctgtttgt tttttgtgta ctccctggac tacgcgagaa caaggttggc 120

taatgacgcg aaggctgcca agggaggagg tgaaaggcag ttcaatgggc ttgtcgatgt 180

ctaccgcaag acactcaagt ctgatggtat tgctgggctt taccgtggat ttaacatctc 240

ctgtgttgga atcattgttt atcgtggtct gtactttggg ctctatgatt ccatcaagcc 300

agttgtcctt actggcaacc tccaggacaa tttctttgcc agtttcgctc tgggttggct 360

gatcactaat ggtgctggtc ttgcatctta ccccatcgat accgtccgca aaaagatgat 420

gatgacatct ggtgaagctg tcaagtacaa a 451

<210> 38205
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G3

<400> 38205

cccacgcgtc cggatgcgcg cctctctccc tcccatacaa ccaggccaca agcgcccgag 60

cggctgaaac cctagctcgc cgtcgtgctc ggctcgccac cccgcgccag ctcctttcag 120

gccctaaccg ttcgccgtcg cgcattcgag cactcgcgga agcgcaccta gtgccatggc 180

gaagaagcgg aagcgcaccg acgccccgc agaggcgacc ggcgcagaga agcctgacga 240

ctctgcgccg gcgcgcccgg agcgcacgct cttcggcttc aaggacccgg tccccgacgc 300

cgagcccgcc ttcgcgggcg ccgaggccgc ggtggcgccg ttccggaaca gggagaaggt 360

actcatcacc tgctcccgcc gaatcacgta taggtgagtg ctccctggtt tttccgcttg 420

cagtcttgtg agatgggtga tt 442

<210> 38206
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G5

<400> 38206

tgctgtccaa aatgacattg gagatgtggt tattccatgt tttattggta acattgccag 60

tcttatttga taataatgtc gtttgcaggt tgatctgttc ttctacagag acccagatga 120

agcaaaggag catgatgagg aagctgctgc ggcccctgag tttgctgcag tcactgatta 180

ccaaggagct gatcagtggg gtggtgacca gtggacctta tatgtgtctt taccatattt 240

tgctcctact ggtgc 255

<210> 38207
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-E8

<400> 38207

cggacgcgtg ggcttcccag aaaattactt taacagcccg ccatcagtca gatgtacctg 60

tgaaatgtgg catccaaatg tttattcaga tgggctggtg tgtatctcta ttcttcatcc 120

acctggtgaa gatccaagtg gttatgagct cgcaagtgag cgttggacac ctgtgcatac 180

agttgaaagc atagttctga gcattatatc aatgctctct agtccaaatg acgagtctgc 240

agcaaacatt gaggcagcta aggaatggag ggataagagg gaggatttca agaaaagggt 300

caggcgcatc gtgctgaaat cacaggaaat gttatgaaga aaatggaatt ctggggaagt 360

caaccgtgcc atgtcaggct actagatttt gctttcaacc tcaaaatgct catctgacat 420

cttgtgtatt t 431

<210> 38208
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-025-Q1-K1-D2

<400> 38208

gcgcccacgc gttcgcccac gcgtacgttt gcttctagcg ccagaacccg ggaaacaggg 60

gcgggttgtt ctaangttgg gctagacacc tcttattaat cgctgactgg ttatgggaca 120

tgtctctgtg tgatgctttc tgtggtatta ttgctgcaat agccgtgtaa tccatcgctt 180

ctgcaatgaa gcgctcggaa gcatgctacg tatgttgtgt ctgtgggtga ttgtatttct 240

ggtagtaaca gtgattgttc ctgaattttg gataatacaa gctcattcgc aggagtttct 300

gttgt 305

<210> 38209
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D3

<400> 38209

attcccggtc gaccacgcgt cgccacgcgt cgccacctcc gaaaaatata ttatcactaa 60

acaaaaaaaa aaaggggttt taatttaagg tgacgataaa tctcatcttc aaactgtaat 120

atactatagt gtacctaatt taattactag tcatcgttta caacacgact atcgaaaaac 180

tttggaatac ccaattaata tttctaagca ta 212

<210> 38210
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D4

<400> 38210

ccaggcgtac gggcaggcgt gcagacaagc cttcgcacac tcgcgttcta tgaccgccac 60

atgagcatcg gctcaggcga gggacatcag tgccacatca acatctcgtt caacgcggga 120

aacctgtacc aagtcacgta cacttgcaat gcgcggaagt actccgtctt cacttgctac 180

ccacaagaaa ggcccggact acttgttgga tcatacgcac atgacacacc ctgaaacgat 240

caccaatcac actagcttga catacactgt cctgacaact agatctatgg cattggttg 299

<210> 38211
<211> 75
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D5

<400> 38211

cccacgcgtc cgcccacgcg tccgtgaaag tgtaacacgc tacattttga acacagaagg 60

ttaccaacat ggggt 75

<210> 38212
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D6

<400> 38212

acgcgtgcgc ccacgcgtcc gcccacgcgt ccgacggctt ccacggccag aacccgccgg 60

cgcgcggcgg cgtgcaccag cccaccttca agatcttctg caaggccgac gaggggtact 120

gcctcaccgt ccgcgacggc aacgtggtgc tggcccccgc caacccgcgc gacgagcacc 180

agcactggta caaggacatg cgcttcagca cccaggtcaa ggacgaggag ggcaaccctg 240

cgttcgccct ggtcaacaag gccactgggc tcgccatcaa gcactccctc ggccagtccc 300

acccggtgaa gctggtgcca gtcaacccgg agtaccagga cgagtcggtg ctgtggacgg 360

agagcggcga cgtgggcaag ggcttccgct gcatccgcat ggtgaacaac atccgcctca 420

acttcgacgc ctttcacggg gga 443

<210> 38213
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D7

<400> 38213

aaacagggct cgtggttttt cattggccca cttggcctct gatctgccct tggagcttgg 60

atctcttatc ttagtttatt tatattatgg atggcatggc aacctggatt cagagaacca 120

gtaggtactg aaaaaataat ccaaaatgat cgagtatcca ctgcccaggc tcgttactgc 180

aatactgcct tcgtgaatcg tgcctctgcc tcccaatctg gcatggggca gtgggcctca 240

gttcttcctt caccactagc ccctttttccc tttcaagtcc cttttgaaat tttctctctc 300

tacaatttct tatacaaaag tgaatcgaat tctgggattt ttttaataaa aaaattccgg 360

gtacagaaag acagtgacgg agatacgaac caaac 395

<210> 38214
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D8

<400> 38214

acccacgcgt gcgcgcgcag gcacagcact actcgaagca agtactatag cagctgctgc 60

tcctgtacac caagcgtacg tgcaaataca aatacaatgg ccaccaaaag catcgcctcg 120

ctgctcgccg tggccctgct gctgctgctc tcctccccgg ccgccgtcgt cgtcgtccgc 180

gcgcagcagc agcagcgggg caacccgtgc ccgacgaacg cggtggcgga cctcaaggtg 240

tgcgccgacg tgct 254

<210> 38215
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D9

<400> 38215

cccacgcgtc cgctactgga agcgccgatc tatcaggttc tgatcgattc ttctgccccg 60

agtccgcagc ggcaagcgga gatgaactgc gagacctgtc agctgaaaga actggagctg 120

gaactgacgg agatcaggga tgttctgcgc tgtattttgc acaccatatt cttccataga 180

accctcagcc tggttcgccc caaagatgtt gactgtgatt tcctcgatat tacttatgta 240

caatgtggtc taccggaact agaaaaggaa gttgacgaat agatagacca gttcagtgca 300

tgggtggaga aacacccaaa ccgcagaagc cagatctgcc tctccttttt cgacgagaaa 360

cacagacacc ctggatggtt tgtcaacaaa acagagcgca tctattggga gcaatggctc 420

atcaatttgc aagtcatgtt ccccaaaaga 450

<210> 38216
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-E1

<400> 38216

acctcgccgg cggccaaaaa tcgaagcacc gaaccagcgg ctgcggcagc ggcggcggcg 60

cggcaagggt tgaccatggc ggagctaaag cggttgtcgg agagccgtga cctgacgcgg 120

attgagcgca tcggtgcgca ctcccacatc cgggggctag ggttggactc gtccatggag 180

gcgcgcgata cctcggaggg catggtcggg cagctccacg cgcgccgcgc ctcggggctc 240

atactccagc tcatccgcca gggcaagatt gccggccgcg ctgtgctcct tgcgggccag 300

cccggcaccg gcaagaccgc gctcgccatg ggtatcgcca agtcgcttgg tgcggagaca 360

cccttcgcct tcgtcgctgc ctcggagctc ttctcgctcg 400

<210> 38217
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-E10

<400> 38217

gacccactcg tccggtgcgg ttcctccaca tatcgtatcg gagtgaattc catcacacag 60

agatcaataa ctcgggaaga ccaacttagc ctatggtaga gcttgcttat aaaccaaact 120

acataaatat catgacgatc attccaactt acgacccatt gcccaatgaa ttacatagta 180

ccttagcctg tactacataa acgacatcaa gcttactact accattaagc tgcatgcctt 240

ataaaaacag gcacactagg tctgtca 267

<210> 38218
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-E11

<400> 38218

cggggacctc gtgatcgccc tctcggacat tctttagtcc atccaggtga tgaacgtacg 60

gtgaggtaga agagccttac catgccgcac ggtcccgtat cggaaggaag gaacacgcgc 120

gttatcggca ccttggaagg acggttcctt ccttccctgc gcctaaatcg ctgccctttg 180

atttcgctgt atcagatgct gctatgctat gctaggctct agtctggccc agggaactgt 240

ggcaataatc tgtggctttc aagctggtgt tagaactctt gtactgcttg taagcttatg 300

tgggttttat cgtgcaagta ggtggtttga tgttttagtg tggtataaaa gcgatttcaa 360

gct 363

<210> 38219
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-025-Q1-K1-E12

<400> 38219

cccacgcgtc cgcccacgcg tccgcaaagt tttctctccc ctagccgccg ccgccgctcg 60

gctccctgag aggtgccggg accgaggatt tggccgagtt ctaggtagag aatcggtttt 120

acttgtctca gcccggggtc tgctgcgtct ggtggtggtg aaggggagaa attcgtgaga 180

tctgttccgg atcaggcgtg cgagctcggg aatcaggggt ttcacacata gcttcgtcga 240

tttgaatttg atgtactaat ggagtctaag ggtggcaaaa agtctagcag tagtcgttct 300

atgatgtatg aagctcccct gggctacagc attgaggacg ttcgnacctg ccgaggcgtg 360

aagaagttcc agtctgctgc ttactccaac tgcgcgaaga gccatcctga tatccctttt 420

g 421

<210> 38220
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-025-Q1-K1-E2

<400> 38220

cccacgcgtc cggttcgctt cttgtggcat cttgctttcc ttcgagtgcc atggccgatg 60

cggcggagga gaacgttgtc tcgccgccac cgacccctgc ggccccagcc gtgggcgcct 120

cagacccgcc cctgcagcct gctgctgaca gcgcctcaac ggagaaggtg tctgctccgg 180

cgccggaggt aaggtcccgg ggattcaggc ttcttggaga ggacacttcc gtgcacaaat 240

cccttggggg cggtaaaact gctgacgttc tgttatggaa agacaagaaa acttctgctg 300

ttggtatagg cggcgcaact gtcatctggg ttctgttcga agtgcttgat taccacctnc 360

tgaccctgat atcccatgta ctgattggtg 390

<210> 38221
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-E3

<400> 38221

gaccaaccct tccggaaaaa ccttattggt ccagtttttc cggttgatct tctttaaggt 60

taacctttta accggagtat gtaaatattc ctttgccaat aaattacatg cttaaatcgt 120

ggctgctagg cgaatggtcc tactttggtc atcaaatgca ggaattccac tactatatgt 180

gccacttgaa gttgttatgt tcaaataata tggtgaaaac gagcgtctat tgggatctat 240

tttttatctt gcaaatgatc ttcctgaaag aggtaatata ttcttagatg aggtatatat 300

cgtaatactt atagcataaa cactcaagcc actacaagta agctcctgct ctttgcttgt 360

ttccagattg atatgtcaag atacgcttgt ttcatttgag ctcactgtta tctgaaaata 420

tatagactgc cttcgtcccc ttcatcactg ctgatgaccc 460

<210> 38222
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-E4

<400> 38222

gcaagacaag aagcagccgt aagcagcaga tagcatggcg agatcagggc gggaagcggg 60

gcccggagag gaggaacgga agctggtgct gggcaagtac gagctgggcc gcctgctggg 120

gcagggcacc ttcgccaagg tttactacgc gagggacctg agcgccggcg ccggcacggg 180

ccacagctgc agcgtagcca tcaaggtgat cgacaaggcg cggctgcggc gtacggaggg 240

gatggtggag cagctgcgcc gggagatctc catcatgcgg atggtgcggc accccaacgt 300

ggtgggcatc cgggaggtgc tctgcagccg ctcccgcgtc ttcgtcgtca tggagtacgc 360

gcgcggcggg gagctcttcg ccaaggtggc ccggggcccg ctcgacgagg accacgcgcg 420

c 421

<210> 38223
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-E5

<400> 38223

attaatcttc tgaaaactgg tgatcaagaa gcatatatga ggatggttga agagagcaag 60

aatgaacgct tgaaaatgct ccttgataaa acaaatgagc ttcttgaagg aattggaaaa 120

gctgtacagc gacaaaaaga tgctgaacat gttagtaagc cagaaggagg gagtgaagtg 180

ccaaaagggt cagaatctga ggattgttct caaatttcgg gcatcaagag tgaatcagct 240

gaggagtcta cttcagatga cgatggagac ctccctggcc ctgcagatga aagtaaattc 300

aatgcaggac gtagacttga tgttactgtt cattctattg aagaaaaagt aacagaacaa 360

ccatctgctc tcgaaagtgg tgaattgaga ccatatcaac tagaaagtct ccaatggatg 420

ctttctctat ttaacaacaa tttg 444

<210> 38224
<211> 436

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-E6

<400> 38224

cccacgcgtc cgcaaaaggg caacaactta tatatagtcg ggaaattgca tattttgtaa 60

gcattgattt atcaggcaac tacttaacag gtgaaattcc tttgggtatc acatcccttg 120

atgccttaat gaatttgaat ttgtcatcaa accaactggg tggaaaaatt cccaacaaga 180

ttggtgccat gatgtcgctg gcatccctgg acctctccat caacaagctt tctggtgaaa 240

tcccatggag cttatcaaac ctgacatctt taaactacat gaacttgtcc tacaacaatc 300

tgtcaagaaa gataccctta ggccgtcaac tggatacctt aaacgtggac aacccgtcac 360

tttgtggacc ttctcttcaa aattattggt caagaaatgg tagcttcatg cctgggtatc 420

acagaagcaa taagca 436

<210> 38225
<211> 117
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-E7

<400> 38225

gagctgcatt actgtcataa aaacaaaatt tttaaaaaaa aaaaaaaaaa aaaaaaaaga 60

aggcataaat aaatcatact acaatctaat caataaaaat atacttttta aatcaca 117

<210> 38226
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-025-Q1-K1-B8

<400> 38226

gtctgccaga tctaactccc cccgactcac taatcccaga gagcctccat ggcgacgcac 60

ggtcactgcc tcccactcct gctcgtgggc gncggcctcg ccctcgccgn cggccctgct 120

cgcgcggcgc tgggccggcg gccccggccc gttgttggcc ggttggaacc ggatccttga 180

cgtgagcgac tggcacatcc aggagctagg cgggtgggcg ctggggcagg cgaagcacca 240

gaagctggcc gccgacgggc tgcggttccg ccgcgtggtg cgcggcgagc agcaggtcgt 300

gtccgggatg aactaccggc tctacgtcga cgccgtcgac cccgccggcc gcaccgtgcc 360

ctacgtcgcc gtcgtgtacg agcaggtctg gacccgcacc cgccagctcg ccttcttcaa 420

cccggtgccc cg 432

<210> 38227
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B9

<400> 38227

catctgcaag gtacaattgg caaatgaagc tgacgatctt gaggccgacg gcgcgggccg 60

cgagagcgtc tgctccatct gcaaggtgca attggcaaat gaaaaacagc tgaccgatca 120

ctatggatca aagcatccaa aggagaaacc tccgagcaca tcgagcaccg aataaccatg 180

gctggtcgtg acgcagaaat atagatcctg cttggctggt ttgaggatct ttaagtccgt 240

ctgatccatg ccttggacct caacgtcagt tatatactct ctagtgtgtg catttcctct 300

tgtttcaggt attgtgttgt cgtgctgcca atgtgtctcc aaagtccaaa ctgtatgtgg 360

tcaccatggc attgggatga tgcgaaaaaa ttatgagcgt atctatgttc caatgtttgt 420

gtggcttaca agatg 435

<210> 38228
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-025-Q1-K1-C1

<400> 38228

ggttgctggt gcccgctggt gcggctgttc ggccttagcg cggcggtgcc gttcgggcgg 60

gacctcaccg taccggaggc gctggcgaac acgcgcgagg acggcatggg cgcgctctac 120

cgcgagggca cggcgtcgtt gctcaactcc atggtgaaca acaggttccc cttcacgacg 180

catgaggtga aggacgcatt cggtgctgcg ctcaactctg gtgacgacgg cgccgccgcg 240

gcacaggcgc gtctgttcaa gaaagcaaat gaggggcacg tcatcaggca gaactagcta 300

ggcggcagtc gccgtgtgta tgtccgcaat gcaactatgt gcgcggcgag catgcagggc 360

ttgcttagga tctgcacgta tgtgtttgat gatggggtga agttatcatc acttatctcg 420

atnaaaaa 428

<210> 38229
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C10

<400> 38229

gtcagccgtt catccaaccg aaccgatatt tgccttacat ccacaccatg atccctattg 60

tcaacgttac tacgcatctc aagccggtca catccagctt cagcccagaa gaccactgtc 120

ttccaacata taccgaatac atacacctcc atatacagtg gtgataacta caactttacc 180

atatacagca catacacagt gataccaatg acacatctac attacataaa caaccaaatc 240

atccatcttc ttacattata caattcaact tacctcataa tagccaccaa aattagttac 300

taaaactact gcaacatgct ta 322

<210> 38230
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C11

<400> 38230

cccacgcgtc cgcccacgcg tccggcttca tgggcaacgg cagcagctac gccaagaaca 60

gcaacaacaa cgccggcatg ctggcgttcg acaagatggg gagctacggc aacaacggcg 120

gcggtaatac caacaacaac agcaacggcg tggaggtgaa gagctacttc aacaagtccg 180

ccgggagggc ggcgagcaac aacaacaaca acagcagcca cgccggcggc ggcaacaaga 240

agggcggcgc cggggagtac ggcaggaaga agcacgccaa gagcgagggc gcggcggcgg 300

cggcggccac ggacaagcag cggttcaaga cgctgccggc gtcggaggcg ctgccgcggg 360

gccaggccat cggcgggtac atcttcgtct gcaacaacga caccatggac gagaacctca 420

ggagggagc 429

<210> 38231
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C12

<400> 38231

aaatttaaac ttcagtacca catctatatt aaataccatc aacaacacat acaactatga 60

aaaaaacagc tacttataca attgcatcaa caaacaaaca agcaccaact actacaacaa 120

caatacatca tatgatgaac caaataattc ctcaacttcc aataaccaat ccaat 175

<210> 38232
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C3

<400> 38232

ctcgtagaga gaaggaaaaa tatccccaat tcctttctcc cgatctcgat ggcgaacccg 60

cgcgtcttct tcgacatgac cgtcggcggc gccccggcgg gccggatcgt gatggagctg 120

tacgccaacg aggtgcccaa gaccgcggag aacttccgcg cgctgtgcac gggctagaag 180

ggcgtgggca agtccgggaa gccgctccac tacaagggct ccaccttcca ccgcgtcatc 240

cccgagttca tgtgccatgg cggcgacttc acccgcggca acggcaccgg cggcgagtcc 300

atctacggcg agaagttccc cgacgagaag ttcgtgcgca agcacaccgg ccccggtgtg 360

ctctccatgg ccaacgtcgg gcccaacacc aacggcttcc agttcttcat ctgcaccgtc 420

gcgacccctt ggctcgacgg caagcacg 448

<210> 38233
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C4

<400> 38233

cccacgcgtc cggcatcagt gcgtcacatt caccgggaat ggcaacgctc aaggtcccag 60

ccactgttcc tcccgtcgcc gatgactgcg accagctgcg caaagcattc caagggtggg 120

gcacgaacga ggcgctcatc atctccatcc tcggccaccg cgacgccgcg cagcgccgcg 180

ccatccgccg cgcttacgcc gaggcctacg gcgaggagct cctccgctcc atcacggacg 240

agatctccgg cgacttcgag agggccgtga tcctgtggac gctggaccca gcggagcgcg 300

acgcggtgct ggccaacgag gcggcgcgga agtggaagcc cgggaaccgt gtgctcgtcg 360

agatcgcctg cacgcgcacc ttc 383

<210> 38234
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C5

<400> 38234

cccgtgaact gggaagaaac cttcaactct ttcgaagaaa acctcaatcc actgacggtt 60

gtgcacaact ggctgggccc cggagtctgc ccaaaggttg tggccaaggg tttcagatgc 120

ataatgagca accaaggcgt ctggtacctg gaccacctcg acgtcccctg ggaggacgtc 180

tacagcggcg agccgctcgc cgggatcagc gacagagagc agcagaagct ggtgctcggc 240

ggggaggtct gcatgtgggg cgagacggcc gacacgtccg acgtcctgca gacaatctgg 300

ccccgagccg tcgcagcggc agagcgtctg tggagccagc tggaggccat atccgcccag 360

gacgtcgaga cgaccgtgct gtcacggcta caccgcttca ggtgcctgct gaaccaccgt 420

ggggtcgccg cggctcctgt cac 443

<210> 38235
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C6

<400> 38235

cccacgcgtc cgggaaaaga agaagaagat tatcaaggag gtttctcatg agtggcaatt 60

ggtaaacaag cagaagccaa tctggatgag gaagcctgag gagattacca aagaagagta 120

tgctgctttc tacaagagct tgaccaacga ctgggaggag catcttgccg tgaagcactt 180

ctctgttgaa ggccagcttg agttcaaggc tgtactcttt gtgccaaagc gggccccctt 240

cgacctcttt gacaccagga agaagcagaa caacatcaag ctctatgtgc gacgtgtctt 300

catcatggac aactgtgagg agctgatccc agagtggctg agctttgtc 349

<210> 38236
<211> 73
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C7

<400> 38236

cggaccgacc cactcgtccg cccgcgcact cggaaaaaac ctacaactat tatcaagaaa 60

acctcaaacc act 73

<210> 38237
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C8

<400> 38237

cagcggttca cccagcgcgc cgctctcgtg tgacaattgg gcgtcccgcg tccgccgtcg 60

ccctgcccag cccttcgccg gtcctttccc aggccttcga cgcgtccttc gccgtcgaag 120

agtccccagc agcaccatgc ccttttctcg gcccgccgtt ggtttcttag ttagactggt 180

tggggtccgg ccaagctgct gtcctccttc ccgtgcattt gcagctgtca gagctcaaaa 240

gattaagctt cccaagaaaa aaaggcgatt agatgaagtg tgcttagaaa ggtttcaaca 300

atacagtaga acatacatcc agtcatggat tcttcaaggc aaagtcatcg tggatggaag 360

agttgtgaat aaagctggaa cacaagtatc tgacaagtct gtcatcgaaa tcaaggctga 420

aatcccaaaa 430

<210> 38238
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C9

<400> 38238

cccacgcgtc cgcccacgcg tccggataaa tctacccaaa tctacagtct gtaccttagg 60

gttagctctg ccgtgcctgt cgaaaatggc aaattccttc tatccgcaaa aaggaactgc 120

cgtgcaacat atacagaata tataatatca ataaattctg gtgatacatc taggtgtaca 180

agtaacaaca catacattgg gaaattaagg tcaaatttcc ttggcacaaa atttgtaata 240

tacgatactc atccgccata caatggaact agtcaaacag tggcagggaa aacaagtcag 300

agattctact ccaagaaggg atcaaccaag gtttcttgca ggtggtacag tattgcacaa 360

atctcatacg agctgaatgt cttgggaact cgaggcccaa ggcggatgaa ctgtgtaatg 420

cactccatcc cagcttcatg ccttgaggct tgtggcaatg 460

<210> 38239
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D1

<400> 38239

gcagagaatc cccaagcaaa caaacagggt tgagggagag gagaggagag gagaggagag 60

gttgggtctg ggacaccatg gctccgatga agctgtacgg ggcggtgatg tcgtggaacg 120

tgacgaggtg cgcaacggcg ctggaggagg ctggctccga ctacgagatc gtgcccatca 180

acttcgccac cgccgagcac aagagccccg agcacctcgt ccgcaacccg tttggtcagg 240

ttccagctct gcaggatggt gacttgtacc tcttcgaatc acgagcaatc tgcaagtacg 300

ctgctcgcaa aaacaagcca gagctgttga gggaaggaaa cctcgaggag gcagcaatgg 360

tggatgtttg gatcgaggtg gaagctaacc agttcaccgc tgcactgaat cccatcctct 420

tccaggtcct catcagtcct atgcttgggg 450

<210> 38240
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D10

<400> 38240

ccggagccgc cgcctgctcg ctcgcctcct ctccggcagc gagctctatc tcccgcgacg 60

agcagcagct gccaccgacg cacgcagacc ggggaataaa tattggtatt ggtagtgtga 120

tatctataag aagtcaagat ggtgaagttc acagctgaag agctccgtgc catcatggac 180

aaaaagaaca acattcgtaa catgtctgtc attgctcatg tggaccatgg caagtctacg 240

cttacagatt cccttgtggc agctgctggg attattgccc aggaagttgc tggtgatgtt 300

cgcatgactg atactcgtgc agatgaagca gagcgtggca ttacaatcaa atctactggt 360

atatctcttt actatgagat gactgacgag tcactgaaga actacaaggg tgagagagat 420

ggtaaccaat acttgatcaa ccttattgac tcgcctggac acgttgattt ttcttc 476

<210> 38241
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B7

<400> 38241

cccacgcgtc cgcgacaagg accgtaaggt tctcctcgac cgcaaggccc gggggcgcgc 60

cgccgacaag gctaagggca agtttactgc cgatgacgtc gctgccgccg ccgctggtgg 120

cgccgccacc ggcgcctctc tccaggagat cgactagact cttcacggtc atctgatggt 180

tgtcgtaccg ccttttcctc atctctttag tttttgctac caattgttat gtgatagagg 240

tcttatgtta tttgaaaact gctctgtgcc tggatgagag ttttggaaca taatgtgaac 300

ctgtgtgtct gtgacctgag ctttgaagat ctcattatgt ggtt 344

<210> 38242
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A10

<400> 38242

cccacgcgtt cgtccacgcg tccgcttgat attgtcaatg tatgaggatg gcggtacatg 60

gatgggttta gtgctccgtt tgcagctatt atggctattg gtatgtggac tgtaccatct 120

tcaccaagat ggctacttct cagggcagtt caaggaaagg cttctttgga ggataataga 180

tagaatgcaa ttcaagccct tacaacattg atgggccgca cagcaagtga aaaggctttg 240

gcagatgatg ttgacgatac aattgtctct attaacgctg cctacgcagg acacgaagct 300

gaaggaaacg tatatgatgt attcgaagga gctagcttga aggccttcac tattggctga 360

ggtctggtta tgcttcagca gataacaggt caaccgagtg ttctatatta tgct 414

<210> 38243
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A11

<400> 38243

ctccagagct catatttggg gcaaccgagt acacttcatc aattgatatt tggtcagctg 60

gatgtggttc ttgctgagct gcttcttggc cagcctctct ttcctggcga aagtgctgtg 120

gatcaacttg ttgagataat aaaggttctt ggtactccaa cacgtgagga aatccgttgt 180

atgaatccaa actacactga gttcagattt cctcagatca aagctcaccc atggcacaag 240

attttccaca agcggatgcc tccagaagct atagatctcg cttcacgttt gctccagtat 300

tcaccaaatc taagatgcac tgctcttgaa gcgtgtgcac atccattctt tgatgagttg 360

cgagagccac atgcgcggtt gccaaatgga cggccatttc cttcactgtt caactttaaa 420

caggaac 427

<210> 38244
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A12

<400> 38244

cccacgcgtc cgagcatatc gagaagaatt tagattaaac aaaaatgcct gaaaatatgc 60

gtaaggtaat gatgctcgtt tttatggaac acatatgatg tcctttgttt aagtcgtttc 120

cagtaaatat attatg 136

<210> 38245
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-025-Q1-K1-A3

<400> 38245

aattcccggc ggaagattgg aagctcgact ctccgatccc ctctcgttcc tccctgtctc 60

cctcgtcgcc tcatcaattg gggatccaat ctttgctgct gccactcggc gatccgatcg 120

ttctcgatca aggtcggtgg ccatggctcg ctgccgccat cacctnctcc tccttcccgt 180

cttacttgcc ttggctgctg ctgctgcgcg gcaggcgcag agtcatgggg aagcctccgc 240

cgtcttcatc gatgcctcgt cgcaccgcta ccttctggac cagcaagccg accaccagga 300

cgcttcaatg tcgttaaatg aagtttctgc ggttgtttct gtcttgcttg gttttgcacc 360

gtcaacatcc ctaccagcta tttcttcttc gaagttgaac aaagttcttt ttcctaatcc 420

atttgataga ccgcgtgctg tttttctcgt 450

<210> 38246
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A5

<400> 38246

cgggcgaaga ttggaagctc gacactctgt gtgacctgta tgagaccctg tcaatcaccc 60

agagtgtcat ctttgtgaac acacgccgca aggtggactg gctcacggac aagatgagga 120

gccgggacca caccgtgtca gctacacacg gtgatatgga ccagaacacc agggacatca 180

tcatgaggga gttcaggtcc gggtcctctc gtgtgctcat caccaccgac ctgctcgccc 240

gtggtatcga cgtccagcag gtctcacttg tcatcaacta cgacctgccg acccagccag 300

agaactacct gcaccgcatc ggccgtagtg gtcggtttgg aaggaaaggt gttgccatca 360

acttcgtcac ccgcgacgac gagcggatgc tgtttgacat ccagaggttc tacaacg 417

<210> 38247
<211> 436
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A6

<400> 38247

aaacaaatct agggttccaa gcgagcgaat accttcgcct gccgatctcc ccgcgtcttc 60

tcgggctaag acgattcgag gcacgagcga agatgccgca gcggcattcg aaaaacaaca 120

acgacctcgc cttcttcacg tacgaggaga agcgtaagct cgggtacggc acgcagcggg 180

agcgcctggg aaaggactcc atcaagccct tcgacgcctg ctgcctctgc ctcaagccgc 240

tcatcggccc gctctgctgc cccaagggcc acacattctg taaggagtgc atcctcgagt 300

gcctcctctc ccagaagaag gacatcaagc gcaagctagc agcacatgag gcccagaaaa 360

agcaagagaa agaagaggag gaagagaagc taattctgca gaaggctaag gagttggatg 420

cctttgatca gcagaa 436

<210> 38248
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-025-Q1-K1-A7

<400> 38248

acgcgtgcgg tggtccgcga gggcgtcaag tacggcgctt gcatcggccc cggtgtctac 60

gacgtccact cccccaggat cccgtcggct gaggagatcg ccgaccgcat cgacaagatg 120

ctggcggtgc tggacaccaa catcctctgg gtgaaccccg actgcggcct caagacccgc 180

aagtacacgg aggtcaagcc cgccctgacc aacatggtct ccgccgctaa gctcatccgc 240

acccagctcg ccagcgccaa gtgagcacct ttttttgcc tttttcgttt ccgaggaggg 300

cgtcgtcgat gccaatttgt ttccaataaa cagggctgtg cccgccgttc tgttgtactc 360

cgtctgtggt taggttagta gttttcttga tctcgccccc acgcggtacc tgttttacta 420

ctctctgntt ggtggtttct ggagcaag 448

<210> 38249
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A8

<400> 38249

ctagatcgcg agggccgccc ttttttttt ttttttttaa tcaggactcc ctgcaagaag 60

aatgagttca gtcatttttg tcattctctg tctctctcca ctgagattca acacgttatc 120

agacactttg ctctccaacg aaggccatca tcgtgaagtg cactgcacac accagtatgc 180

tacacggccg gcggtgtggt aactgctatc atcatccatg acaagatgaa caagcaagat 240

cacgattagc gtttgcagac cgcgacgaga ggcagcacgc cagcgtcgcc aggccggact 300

cgctcctgcg cgacactcag tgagtaacct attacgaacc taaagcaata tcgtctctcc 360

t 361

<210> 38250
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A9

<400> 38250

atttgccaga gcagacttcg atcttcttaa tctacctgac agtttcttac catcatttga 60

gtttattgat ggacatgtta agcctgttct agggagaaag attaactgga tgaagacagg 120

gatcgttgag agtgatctgg ttctaacagt tagtccacat tatgttaagg aactcactta 180

tggcccagat aaaggtgttg agttggatgg tgtccttcgc acaaagcctc ttgaaattgg 240

aattgtaaat ggcatggatg tttatgaatg ggatccttca acagataagt acaccagcgt 300

gaaatatgat gcaacaacgg taactgaagc aaaggctctc aataaagaga ggttgcaagc 360

tgaagttgga ttgcctgtgg actcgagcat ccctgttata gtttttgtcg ggcgtcttga 420

agaacagaaa gggtctgaca tactca 446

<210> 38251
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B10

<400> 38251

atctgcaacg ggcaaaatat aaaccactaa cacatcaccg attaccattc atcacacatt 60

tcacaacaca aacctcccaa cacatccaac acctaataat catgtctcgt catgacccac 120

acctatcaat acttcctaca cattttccga atcttcaaat ccttttgaat catccttata 180

acctaaacct ccattaccta ctacacagta tctccatata ctcctgaccc acatattccg 240

acttcctcct accaattttt ctccaaaacc c 271

<210> 38252
<211> 470
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-025-Q1-K1-B11

<400> 38252

ctcgttcttt cccgggggag gggaggactg tgagatgcct ggccagccat ggacccgccc 60

gacccgaacc ccaacgatgc cccgtcgctc ccagccgaat ccgcggccag actcgccgcc 120

ctctcccttt gtggcaccag ggaccttccc ccggacttcc acaccgccga gatcctcgac 180

gacgacgagg gctacctcac ctccgcgtcc agaggcggga gcagcacctc cgcgtggaag 240

gaggcgcccg agggactcca cgacgatgac aaggatgggg acgatgtctc ccagcccagc 300

cccagaagca gcggatacgc tggcgagcgc ggaagcagcc ttgatgacga cgccgacccc 360

gaccccgacc ccgaccagga ttgggcgcgc ggcaagaagc atccncacga ggacgatgct 420

tcctcttcgt ggaggaagag gaaaaaacat ttcttcattc tgagcaattc 470

<210> 38253
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B12

<400> 38253

gctgagtatt agcgcatact gctagactgc cactgtcgtc tgtgctatgc atgcttttga 60

gctcgagtga tgtttgagga accagtgatc gtgttgatgg tgctgaacat tggaacctgc 120

agtacagtgt agcatgatgc ttgcttgctg ggccacggcc cgttc 165

<210> 38254
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B2

<400> 38254

gcaagatgtt cggcttcggg caccacggcc accacggcca gaacccgccg gcgcacggcg 60

gcgtgcacca gcccaccttc aagatcttct gcaaggccga cgaggggtac tgcctcaccg 120

tccgcgacgg caacgtggtg ctggcccccg ccaacccgcg cgacgagcac cagcactggt 180

acaaggacat gcgcttcagc acccaggtca aggacgagga gggcaaccct gcgttcgccc 240

tggtcaacaa ggccactggg ctcgccatca agcactccct cggccagtcc cacccggtga 300

agctggtgcc gttcaacccg gagtaccagg acgagtcggt gctgtggacg gagagcggcg 360

acgtgggcaa gggctttcgc tgcatccgca tggtgaacaa cattcggctt aacttcgacg 420

ccttccacgg cgacaagg 438

<210> 38255
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B4

<400> 38255

cgcgtacgtt tagtattttt ttttttttt ttttttttt ttttttttt ttttttttt 60

ttttttgag caattaacaa ctgaaaacgt tattttatat gcaaagtagt agtaagacag 120

ttttgcatca cttatgagta caaagacata agacatcgtt atctattttt cagcaaataa 180

aacactggca aacaacgaaa atttttatca tatcggacta ataaacacta ctaagctgta 240

ataacctgcg agtgtaataa gaaccaaaca aagaaaaaaa gaagatccag ccctaattag 300

cactaactac ttagctagcg gtagccatta ggcgattatc aagcgcattc atttcatgcc 360

atatcggggt catggatcac ggtctccggg cttgggccct gacaaacacc gggagagggc 420

ccca 424

<210> 38256

<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B5

<400> 38256

ccgccctttt ttggtttgtt ttttttttt ttttttaac atgtttgttc tagtagcttt 60

ttgagactga gcgcatatta ctcggcgaac ttcaagctta ccaccaaaac cagtaagcct 120

cctcgaacta acataagaga ttacacatcc atacttccca aggctacccg ccactaagag 180

atccagattt caaaacatta catttgaacg agactttgga tgaatcacat tagcttgcaa 240

aatacgataa ccagtaaatg gagaacatta catttgaacc agactttgga tgaatcacat 300

cccacatggc tttcaaaata actctgtttc gaccagatca gttgctccaa caaatatggt 360

gatagccgaa caatcaagtg ccaatatcat cttcgaagca tcggaccagg cttgaagtac 420

cctacaaagt tggggatgtg actgctccat tgtttcatgt gaac 464

<210> 38257
<211> 496
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H9

<400> 38257

ggacctttgg gctgatttat gtgcttgttt atgtgcttgg gatcatttgg cgcaagcgag 60

tggggcgtag actgcgtttg acttggctga atttggtaag tttgttatcc ctaagactct 120

tgtcctcatc gacaaaatta ctgagaaggg gaagtcggcc actgatgcta agcaccctcc 180

tcctcatgcg tatctggaga tttgtgatac tcgtggagag atccttcgtt tagtgattgg 240

tgatcctgcg tcgctttatt agtagatgtc gttaggtcct atcttgttgg gtcttcatat 300

gactcatacg aagaccgctg gggatgataa tgaggagtcg agtcgtactc tgcctgggcc 360

tagtactggt cctgctgtgc ttagtcgaat gtgcttgagt tcgggtatga gaggtagtta 420

gtttacggac gcaaaccatg cggagtatat ctcgcacttc acgatcccta agcactcagg 480

cttacgcaag tccccc 496

<210> 38258

<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G6

<400> 38258

cccacgcgtc cgcccacgcg tactgtcatt ccgccctgat cacatcaaca tacaggttcg 60

ggaccaatct gatgaagtgc tggctcgtgg tttcaatgat cagatttatg acatcttcca 120

gcttctgcca tctaatattc acgatgcagt ctcctctgct accatgccac ctgaggccat 180

tgagattacc cgcaagtaca tgaacaaacc agtcagacta tcttgtgaag agagattagc 240

tcacccttga gggcatcaat catatctatg agaatgtgca caatgaatac ttgaagctgg 300

acacactgtg tgacctgtat gagaccctga ccattatcca tagtgtatat ttgtca 356

<210> 38259
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G7

<400> 38259

cggacgcgtg cgcggacgcg tgggaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aagaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaata acaacaaaaa aaaaaaaact aagaaaaata taaatacaaa gacacataaa 180

gcccctcaga ataccacaca atttattaac aaacc 215

<210> 38260
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-024-Q1-K1-G8

<400> 38260

acgcgtacag agggcgcggg cgccctccca aggtcgccat gacctccgcc aaggcctccc 60

ccgccgaggc ggccaagaag gcggctgctc ctgccaagaa gggaaaggca gcggcggctc 120

ctaagaaggt ggcaaccccg aagaaggctg ctgctgctgc cgccccggcc aggaagggcg 180

tggccaggaa ggccaagaag tagtctgcct gccttgtcgc tggcgagatc ccccccctcaa 240

ttccgcctat agattcccct ctttcatgga ttttgatcca atcgtaatat tgtcagtagc 300

tctagattcg tcggtagctc cagcatgagt gtcggtggta gttctgtgcc tgtaaaaact 360

tgggatagtt gatcgcgtgt gatcagccgt catgctcctn cagtctctat gaacaagcta 420

agctataata gtattttgct at 442

<210> 38261
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G9

<400> 38261

ggacctttgg gctgatttat gtgcttgttt atgtgcttgt ttatgtgctt gtcagtcaaa 60

gtaataaggt agtagtataa gtaagaatgg atattcttct ttcctgttcg cgactacgct 120

gctccgtcgt ggtggtaagc gtgggcgtgg tcttagtcgt cttcgtggta gtggacgtaa 180

tggtcgtggc acgcatttcg atgcggagat tgttgttatt agtagtgcta agattatggc 240

ttctgttgtg ttgattatta aggttagtgt tggtggtcct gaggtggtta ttgagggtgg 300

tggtcgtgat cgtaatattc gtaagcgtgg tattagtcgt ggtcgtcttc gtcgtagtcg 360

taatcgagtt ggtttggtct ggtgacggtg tatgagagct gagaggatga tgatgaggag 420

gtgcacaaca aacacaacag tggtgcttag caaacaagac ttcgctaatc 470

<210> 38262
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H1

<400> 38262

cagacgcgta gcttctagcg ccatcacccg aggaataaga ccacaccatg ctgcgttacg 60

cgggcaggat gctttcggct tccgtcttct gacggcgcac tcaggcagcc gctaagggac 120

ctcttgacgg agatcgcgcc ccttatcggg acgacgattg tgctttacac cgtaaaccaa 180

cactgctttt catactctac atccagtatg caactgccag gaggtcctct ttaactgaga 240

cacttgtccc aggaaaccaa gaagctgggc tatc 274

<210> 38263
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-024-Q1-K1-H10

<400> 38263

tttgggctga tttatgtgct tgtttatgtg cttggttgca taataccagc gcactcctcg 60

tagtacatac ctgcataggg gtggtgttat ccgaaaaact actcgttctc tacttatcgg 120

aatagacgat ggtcacacta cgtagaataa acctgaaggt ggccgagtac gttagaaaca 180

cgcgtctgtc cggactggaa ggttaactaa ccacgtcgag aagagtcggt aaaccccacc 240

cgttaaacag cgacacgtac acatcgagca acacactccg cttcgcactc ntacgcagga 300

agatctccac aagactaaga ctcttatagg actcgaacgg tagaacgcta ttcctcataa 360

ctcgtagttc taggatcatc cgaggcgtcc taatcttcgc gatcggaggc agcggagtcg 420

ccttcgcaaa ttacg 435

<210> 38264
<211> 483
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-024-Q1-K1-H11

<400> 38264

gaactttggg ctggtttatg tgcttgttta tgtgcttgtt tatgtgcttg tttatgtgct 60

tgggcgttcc gattaatcca ggaacccggc gcctcgctct cgtcgatacg ctaaattcct 120

tagtacgcct gcccggggcg tgtacaaaga tacgaatcgc gaggaacgac ataagcatag 180

catggaaacc tgatagcact cgtccgcggc ctaagttggg ccgaataccg aagacagtag 240

agcccgggta cgtaccagac gcactgcggc atcggagaaa cacctggcgc agtcgccggc 300

cctcgccctt gccctcctta gtagccattc gcgcctatca ttctaaccgc gcttttctac 360

gagctacgat tgcaccctag agcccacgcc ggttaccttc gtatctcagg cagttgtaat 420

cggtattacn cgcgagagcc aaatcacggc cgccggccgt accactctcg cggttcgcga 480

cac 483

<210> 38265
<211> 486
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H12

<400> 38265

gaactttggg ctgatttatg tgcttgttta tgtgcttgtt tatgtgcttg cttatctgct 60

tgtttatgtg cttgattatg tgcatgggtg atttactgat cacggaagga aggtgtgagt 120

tggaggtgga tggtggaaag gttgggggtt cattgatgct ggagttggtg tattcgtagg 180

gttagttgtt gtatgagcat gggcatggta tgccttaggg tttctgatac ttctttgctg 240

ggcctttgta gatcgttttg ctcattgggt ctggtggtgg tggtggtggt ggtggtcact 300

ataattagaa gtagctgcat gtgttcgtgg agatgcatca tgtttagggg cattaggttg 360

cattaggtca cggcttcgcc gtcgaaggaa gattcgcgag aacgacgtgc tctttacgcc 420

gcggttctgg tccaagtcgg cgctcgccta caatcgggcc ccctccggtc gttaccttac 480

ggccta 486

<210> 38266
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H2

<400> 38266

ttccaggttt cgtccgctta cagagggagg gagagagaga gagagttaga ttggagccac 60

acgatgctga gatggaggta cgggagcata tcattatggc tctgacgacg gagcaccgcg 120

acggacacta tcgtacctct tgactgaaat cgcaaccctt atcgagacaa agactgtgct 180

cgacaccgta aagccatgcc gttattcata cactatatct agtttgcatc tggcatgagg 240

tcctctttaa ttgaaacact tgatccatgt atccataaat ctgggctatc ttagctagta 300

tctaatgaaa atgatatgaa gaatcctgac atattcacag cccatgatta gtacaatcat 360

ctatcaaatc ttacttctga taccgtcttg catgcattgg ctaaagatga tcttaaagac 420

gaaaggatca tacattcatt aattactg 448

<210> 38267
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H3

<400> 38267

gccctactgc caccgcgccg aacgccatgg tcgagccggc agagcaccgt ccagcggagg 60

aggaggaggc cgcggcggcc ggcgaggatg aggacaccgg cgcccaggtc gcgcccatcg 120

tgaagctgga ggaggtcgcc gttaccaccg gagaggagga cgaggacgcg ctcctggaca 180

tgaaggcgaa gctctaccgg ttcgacaagg aggggaacca gtggaaagag cgcggcacat 240

gcactgtgaa gctgctcaag cacaaagaca ccgtcaaggt ccgtctcgtc atgcgtcagg 300

cgaagacgct taagatctgc gccaaccatc tcgtggtggc gacgactaag atgcaagagc 360

acgcggggag cgacaagtcg tgcgtgtggc acgcgcttga cttcggcgac ggcgagcttc 420

aagaggagat g 431

<210> 38268
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H4

<400> 38268

ccaagcggac gctgtcggtg tgcgccgtct gctcgtccta ggaacgaccg acgagcggtg 60

ctgcgcaggc agaagccatt tgcacgcgtc ccccttttcag ctttgttgcg cccagtccga 120

gggttttgtc tttgtttctg tcgtccgaat ggagcgagtg gtgatggtga agtgtgtcag 180

aaatagatcg gagaaaaatg aaatagaaag cagcaacagc 220

<210> 38269
<211> 486
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-024-Q1-K1-H5

<400> 38269

cggacgcgtg ggcagatccc aatgcaggag ctatagttcc agcgaataag tctaagaggt 60

cggcagagca ggggcaacgc acaatcaggc gcccgttctc tgttgctgaa gtagaagcac 120

ttgtgctcgc agtcgaaaag cttggaaccg gaaggtggcg agatgttaaa cttcgcgcgt 180

ttgacaatgc gaagcaccgt acctatgttg atcttaagga caaatggaag acgctggtgc 240

acaccgcgag catctcgccg cagcagcggc gtggcgagcc ggtgcctcag gagctgctcg 300

accgggtcct ggcggtccat gcctactggt cccagcagca agccaagctc cagcctaaga 360

cgcccccgct gctggctgaa gctcgcttgc tcacctaata aattcgatga tcctggctga 420

tggcctnctn cgaggccgat gcagcccttg tataaagtca gtaagtcaat cagtcccttt 480

acagga 486

<210> 38270
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H6

<400> 38270

tagccacgcg tccgcgcaag ctcgccatga aatggctccc cgacatgaac cccaacaaca 60

tgaaggaggg cgaggacaag ttcaagcaga tctcggaggc gtacgaggtg ctgagcgacc 120

cgcagaagcg cgcggtgtac gaccagtacg gcgaggaggg tctcaagggg cacgtgccgc 180

cgacgggcgc cggcggggcg gtccccggca gcgcaacctt cttgtccacc ggcggcgacg 240

ggccgacggt gttccggttc aaccgcgtgc aacgcggagg acatcttcgc cgagttcttc 300

ggtggctaca gcctcttcgg cggtatgggc ggcgatggca tgggcggcaa ccgcatgggc 360

ggtgggatgc ctggcatgcg gagctgctgg acgaggttct gctggtccat cttaggtgac 420

gatata 426

<210> 38271
<211> 453
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H7

<400> 38271

ccaaaccggc aaaccctaat gacctaatcc ccatccccta gccggtagcc gccgagcaaa 60

cgggctcatc cgatcggtca tccactcatc ctcatccccc gcccattcga tccgatcggt 120

catctcatcc tcatccccta cccgatcaga tcccctgctc atccgccgag caccaccagg 180

cagcaggctc cagtcgtcga gcaccagcag gagcacggcg cgctgcccag taggagcacg 240

gccaggagga cgacgcctgc atcctgcctc ttctcctctg ctactggagc ctctactgct 300

aggagcacgg ttaggaggac gacgcctgca tccagcagga gcaccagcag gaggaggacg 360

cccatgctgc tgccgttgag cgatgatctg atgcgccccc atcatggctc ttctgcttcc 420

tcgcgggctc gccttgatct actgctgctg gtg 453

<210> 38272
<211> 472
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G5

<400> 38272

cccacgcgtc cggctgcgta gacagtccct tcgccctgat aacatcaaga tgtttgttct 60

tgacgaagct gatgaaatgc tttctcgtgg tttcaaggat cagatttatg acatcttcca 120

gcttctgcca tccaagattc acgttggagt cttctctgct accatgccac ctgaggccct 180

tgagattacc cgcaagttca tgaacaaacc agtgagaatt cttgtgaaga gagatgagct 240

gacccttgag ggtatcaagc agttctatgt gaatgtggac aaggaagact ggaagctgga 300

cacactgtgt gacctgtatg agaccctggc cattacccag agtgtcatct ttgtcaacac 360

ccgccgcaag gtggactggc tcactgacaa gatgaggagc agggaccaca ccgtttctgc 420

cactcatggt gacatggacc agaacactag agacatcatc atgagggagt tc 472

<210> 38273
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F1

<400> 38273

ctcaactctc gcgtgtcgcg tccttaaccc ttcctcccct ccgatgcgac cctccgtccg 60

ggcgaccgtc gacaccagcc tcctacctcg cgcccaccgt cgggatccgt ccctactcgt 120

ctgcgcccgc ctcgggctag atttctgaga aaatggcgag aagtgccgga actaggaggc 180

gtgtggctcg ccagctcaag tccacacatc ccattccttc ataccgatgg aagtcaaagc 240

ccatgaaaaa gccgatgaaa aaatgcaacc gaaagcaagt gttgccaacc ttgcaaaaga 300

tggactggga agatgccaat cgctctgtgt gcatggaata cccacataat gctgtgctca 360

tcccttggtc ataccatgat aaggggtgtc gtccatatat gtgtg 405

<210> 38274
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F10

<400> 38274

cttatgtcga acaatcattc tttgcgttta gatggcatag atctttttct taattctatc 60

ttatcctcgt tgatgactct cttgaaagta ctcttcttta gtcacgatca tcatgtcgtc 120

ctagactgtc tataggtgag gatttactaa tattgtgatt cactattcta cacttttaag 180

ttcg 184

<210> 38275
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F11

<400> 38275

ttggttggac ctttgggctg attatgtgct gttatgtgct gttattgctg cctgacctga 60

tcgtacgtat tgtatggttc tcgcgaccat tctgatctga tcgtaccgat tgtatgttgg 120

agtgtcaatt tggcggctaa gttgtttggg tccgtaagtg tcttcctatg agctgagttg 180

gatgtttgtg catagtgggt gatggaggga tagattgtgg gtctgagcgg agtttgtcct 240

ccatatcttc tgccggaatg agctagctaa gtgaagttcc cctctagttc ttcatgatgg 300

gatatgtcag tggtcgcctc tctgccgtgt ggtc 334

<210> 38276
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F12

<400> 38276

tttgggctga tttatgtgct tgtaaataac gttaatctat ggtcagcaac tcctaggaaa 60

cgaccacttc agtcatatcg atcggagtag cgtcccgtta tttgtgagca ttgagtccac 120

cgggctcgta gtcgtcgaca cagacgaaga cctcgtcgag aacgattatg catgagatta 180

cgaataattt ggtcaaggga gttcagtgag tactga 216

<210> 38277
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F2

<400> 38277

gatatcacta ggagggagac cttcaaccat ttcgctagat gcttagaaga tgcaaggccg 60

ggtgcaggtg ctaacatgac tgcgacgctg attggaaaca agggagacct ttctcataga 120

cgggctgtca gctatgatga atgtgaacaa ttatccaaag agcatgctct gctcttaatg 180

gaggcatttg ccaaaactgc acaaaacatt caagaggcat tcattaagac cgctggtaca 240

catatacaaa accattcaag atggcctatc cgaagcatca aatgactacc acggcatcaa 300

aggactctac acaggtccca acttatctgg acgtggaact ggct 344

<210> 38278
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F3

<400> 38278

aataggacta ggaagtagaa cctacaacca tttcgtatga tgcgtagaaa atgcacggcc 60

gtgggcaggt gctaacatga ctgagacgct gattggaaac aagtgatatc tttctcatag 120

acctgctgtc aattatgagg aaggtgaaca acaatgcaaa gaccatgatc agctctgtat 180

ggccgcattt gctagctctg cacaacacat tcaattggca tgtcattaat acc 233

<210> 38279
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F5

<400> 38279

cggacgcgtg ggcgagctag ctccgtgagg cggtatggca ggaagcggca cactgctccg 60

agcccactgt ctgttgatcc caacatgctc agcgagggtg gccaccaaca cgccattgcg 120

tacgtccagg gcgacaagta ctatggtgca aaggccacca ttaatgtgtg ggagcccaag 180

attcagcagg ctaacgaatt tagcctgtcc cagctctgga tcttgggggg gtcatttggg 240

gaggatctca acagcataga ggctggctgg caggttagcc ctgacctcta tggagacaac 300

aacaccaggc tgttcacata ttggactagt gatgcatacc aagccacagg ttgctacaac 360

atgttgtgct ctggtttcat tcagataaac agcgaggttg ccatgggggc tagtatcttc 420

cccatctcga actacgcggg ctcccaatat gata 454

<210> 38280
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F6

<400> 38280

agcgaagaag aaaggagggt gctctgccgg cggcggagcg gagatgtccg agaggaggcg 60

cggcgcctgc accgggaccc gcaaggatga ggtggtgacc cgcgagtaca ccatcaacct 120

ccacaagcgc ctgcacggat gcaccttcaa gaagaaggca ccgaatgcca tcaaggagat 180

caggaagttc gtccagaaga ccatgggtac caccgatgtc cggatcgatg tgaagctcaa 240

caagcacgtc tggagcagcg gtatccggag tgtgccgagg cgagtccgtg tcaggattgc 300

ccgcaagagg aacgacgagg aagacgccaa ggatgggcag tactctctgg tcacagtcgc 360

tgagatccct ccggagggtc tcaaaagttt gggaactaat gttgttgaag atgaggatta 420

agtcgaaggg ttcaatcatc tatcacttaa atgcattcc 459

<210> 38281
<211> 306
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-024-Q1-K1-F7

<400> 38281

tgatgattgt tctcaagttg aaccctagtg taactgataa aactcgtgaa accaagggta 60

tgcaactctg gaactcaaac gttctactcg aggattgatg gttcacataa atgtgggaac 120

acgtaggaaa aactatgcat cttcgattta ggttgcaaaa gagggagctt gaactcatta 180

cctgagccat cacaactttc ttctctgcaa cttggttaca ggttatgccc ttgctaaagg 240

gataatgcaa agatccctac aacaccaatt agaattgggg aagacgaacc tnctnctcag 300

tctcct 306

<210> 38282
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F8

<400> 38282

cgagagcgtg attgagtcgg tggactcgtt gaacccgttc atgcacgccc gtggggtcgc 60

ggtcatggtg gacatctgct ccacaactgc tcgcctggga tccaagatgt gggcgcctcg 120

cttcgactac atcctgacgc atcaggccta tgtggcggtg gacaaggact ccactatcaa 180

ccaggacctt atcagcaact tcttgtcgga ccctgtccat ggtgccattg atgtctgcgc 240

caagctgagg cccaccgtcg acatctctgt gcctgccaac gccaactctg tgcgcctgga 300

gctcctacag tcttcctaga tcgaagcagt gagctgagag tgagatggag agagaaagag 360

aggatgtcgt gtcccgagtt acaacacatt gctgaatggt ttgtgcaact ggatgtaagt 420

caagtctgaa ctgtgaacct atgatcgctt cta 453

<210> 38283
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F9

<400> 38283

gacctttggg ctggtttatg tgcttgatct ttcgtatggt attgagttct tccatctctc 60

cttttaaact tcctcttttc ttggaaccgg gttaacagtt tgtcgtgtcg atagctgtga 120

ttctggctgg ggaagaagtc ctgtctttgc gttgtatact gggagaggag tcttttgtct 180

tagttctgat agatgtcctt ccgttgctgg ttctcatggc aggtggtcat cgtgctcgtg 240

acgagtcgtc atgctcgtct tgagctggta gtgtaggatg aggagttta 289

<210> 38284
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G1

<400> 38284

cccacgcgta cggcgcaccg cttacccagt tgccctagct ccacccacct tccgctgcct 60

tggggaactc aacccccgcc cccgtcacgg atcggcacgg ccgacggact cgccttcccc 120

gtcgcctcct ttgcactcgc ctgcgtctcc tcacctcccc accccgggca ccgcatctgc 180

tgcgcgatcc cgtcgtcgtc ctcgcgccag accgtcaaat cctcgccgct ccgcacgact 240

accgtgctct ccagagaacg acggcgcacg ggccgtggcg cgttcgtagt gagcgctgtc 300

caaggccagg acacgaccat ccaagtccca gatgtgacaa agtcgacatg gcaatcactc 360

gtgatcgag 369

<210> 38285
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G11

<400> 38285

ggacctttgg gctgatttat gtgcttgagt ctagctaaat agtatacgag catctcggcc 60

aggattgata attgtccgtg acgtacgacg gggatggcta cagggtagtt agaggctgct 120

atttagtcgc cgtcgtggaa gtcgatggtc gagtcgtagt cgttagcgtc tgtgtcggcg 180

gacctcgacg tacattgctc taagactccg ttggcgcata cgcgcggcct taataatacg 240

acgcacgata gcgttgactc gatgatgttg tatactaacc ggactggcgc ttgcatgagt 300

gattcgcata agcagtagac gttcgagtag tgttgctcct ttacgattga ctatgacact 360

aacgcggatt aaagagtcgt cacgatgagg atcctcacga agtagaacg 409

<210> 38286
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G12

<400> 38286

tttgggctga tttagtgctt gggatgtcgt acctacgtga tctgttgagg ataggcctca 60

taattgtcct tttcgtacta cctcgatggt taaggggtag ttagacgctg ttatttggtc 120

gccttcgtgg aggtctaagg ccgagtcgaa gtcgttagcg tctgtgtcgg cggacctcga 180

cttacatggg tctaagactc cgctggcgca tacgcgcggc cttaagaata cgctgcacga 240

tagcgttaac tcgatgatgt tggatactaa gcggtctggc gcttggttga gtgattcgga 300

taagcataga gcgttggagt agcgttgctc ctttacgatt gactatgaca ctaaggcggg 360

gaaagagtcg tctgaggagg atcctgcgaa gtagaacgag ggtcgggcg 409

<210> 38287
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G3

<400> 38287

actacgattg tccgctgcat gaatccggct ctgcgcgccc aattccctgc aaagccccag 60

tgtctggcga tgatcttctt ggaagatttc ttcattcttt actggcgccc aattctgctg 120

ggaggggggt tcttgagagg gagatccacc atttcgcttc ggcttgagca gccggggagc 180

tgagcagcgc ggcgcccatg tcggactccg agctgtccca gggcacgcta gtgttcggcc 240

tccacctctg ggagctcgtc tgcatccgtg tcagcgccgc attcgtgctg ctcctcgacc 300

tcctgtacct gctctgcc 318

<210> 38288
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G4

<400> 38288

cagaccctgc tccagtgctc ttttcttcta gccggcgccg caaccgcttg ctagcgctgt 60

gcgcgctcat actcgcgtcc gtggaaggtc gactcgacat ggcctccgag acggagacgt 120

tcgccttcca ggcggagatc aaccagctgc tatcgctcat catcaacacc ttctactcca 180

acaaggagat cttccttagg gagctcattt caaactcctc cgatgccttg gataagatca 240

ggttcgagag tttgacggac aagagcaagc tggatgccca gccggagctg ttcatccaca 300

tcgtccctga caaggccaac aatactctga caatcattga cagtggcatt ggtatgacca 360

agtcagacct tgtgaacaac cttggtacca ttgcacgatc tggcacaaaa gagttcatgg 420

aggcactggc t 431

<210> 38289
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E9

<400> 38289

tgcttgatcg aaggtcgcgt aggcgtacgt cccccagagc atataactag agtcgggtga 60

tgcccacgac tcgttgaacg atacttcagg cagtacatca ctattggcga tacccataga 120

acttcgttag acagattcag aactctacat tcggtaaggg ccgacgaaaa atcgacgttg 180

gaaatcggac tctattagtg gatattccga ctaatttcga aacatgagta cctcatgcat 240

aaggatctaa cccgttacga tagctaatag tctcccgtgc tactcatata tctaattcaa 300

ctccaacatg cgcgacacca tgcgtgggtc gtctaggaag gataact 347

<210> 38290
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D3

<400> 38290

cccacgcgtc cgaaaagtaa caagagtagt tcaaggctga atgcacggag gacgaggccg 60

ggaaccggac gaccgcagtc actgtcccaa ccgcattcaa acttgcaaca ggtatgccaa 120

tctacaggtt ccatgcttcc gaccccgatc atggaagaga ctgcctactt tttattgata 180

cctaaaatga actcac 196

<210> 38291
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-024-Q1-K1-D4

<400> 38291

nccacgcgtn cgcccacgcg tccggggacc tcaacgtcac ctaccctntc tgggtggagg 60

agcccgggcg gcccccgtgc ggaccaccga ccttncagct caagtgcgac agtagcggcg 120

cgttcctgat cagatccgtc taccaggcct tccaggtgct cggcatcttc cccgagaaca 180

actccttcca cgtggtggac cacaacctnc cgctcgccac cggctgccca gcgccaacgg 240

tgaacctctc gctcttattt cccgggaaca ttcgtattaa gcagagccaa caaagagctg 300

ctctttcttg ggaagtgcac ngggtttccc gtcggcggag tctggcgggt ttcgcagcct 360

gccttgcgac aacagctnct ttgtccggct cggcgacggc cggaatttct ccagccaaag 420

ca 422

<210> 38292
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D5

<400> 38292

cagacgcgtg gtcagacgcg tgggctaact tgtcacgagc gcaccgtcgc acgttgggga 60

tgtccccacc ggcgacggga tcccgaccgg agccctaatt ccaaggggta aacgatgagg 120

ccgtacgcgg tggggacggg ctgcatgtgc gtgtggaggc tgaaagcggg ggccgtcgct 180

ggtgccgcaa gcccggagtt gatggtggtg ccggcgtctg gtccagctcg ggtggacgaa 240

gccgggaagc acgcagtgat ggcgcgtaca aggctttccg ggcgc 285

<210> 38293
<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D6

<400> 38293

cccacgcgtg cgcccacgcg tgcgctcact cgtccggaca cgcgtgcggc caaaatgcac 60

aggttttcac tgcattgaac aatgcaaaga aatctgctag gtcgaatggc actggatttg 120

ctgggcgtaa gagtgttcga tcttcccagc attttgggta tagtaaggac aacttcaatt 180

gggtggatga tatggacatt tcagacagtg agcactcgga tgagttagag aatatgagtg 240

atggatccga ttcagactgg gtacagtcga cgaggaaagc caaaaaacac cagagaagag 300

tgtctagcca ttcaaatcct aacctggatt gtcaaaatac acaaggcagt gcagaaccag 360

agaagccctc agatgaaaag tgcattttgc ccaaatacat ttcatcagac ggctgttcat 420

gctcaaaatc ctcctcatgc aagaccaaca aatgcgagtg cagagggtca agtgcacaat 480

<210> 38294
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D7

<400> 38294

cccacgcgtc cgcccacgcg tccgcccact cgtccgcgga cgcgtgggtg gatctgagac 60

tggattattt agagggagta aatgtatagg ttaatggtag ctactacttt gacttatcaa 120

tcgtcccgca catgggtccg acttaagaac accttgcttc aggcgctcaa gatgctgacg 180

cacggccggg acgattgata agtcaaatta gttgattcac ctggatctca gcctcagata 240

tttagaggga gtaaatgcat aggtcaatgg tagctactag ttttttcggc ttatatgtta 300

gtgtctagtg cctctattcg taagcacgag tgagaggatg caccagcgta tctgagaatg 360

gcttcacagt tctaagagac gaactagtag cgataactgt tgatatttac atgaagaaca 420

tgctcaaaa 429

<210> 38295
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D8

<400> 38295

cggacgcgtg gggcacttgc atcgctactg tataatccac tacaatctga agtccagcaa 60

tgtcttgcta gacacgaatg gtgagcccag ggttggtgat tatggtcttg tgaacctgct 120

gccgatgctg gatcgctatg tgctcagcag taagatccag agcgtgctgg gatacatggc 180

acctgagttc acttgcacaa cggtcaaggt cacggagaag tgcgacatat acagcttcgg 240

agtgctagtc cttgagattt tgtcaagcag aaggcccgta gaatatctgg aagatagtgt 300

ggttgtgctt tctgatcttg tcagtgatgc actcgatgat gacaggctgg aggactgcat 360

ggatccacgg ctatcaggtg agttctcgat ggtggaagcc acactgatca tcaagctggg 420

cctggtctgt gca 433

<210> 38296
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D9

<400> 38296

ggacctttgg gctgatttat gtgcttgacg acgaggcgcc gaccgtcgga cccggcctgc 60

agggctacgt cgcgggagat accgtcggcg ctaggcctaa ggccgccaag gcgctcggcg 120

cgctgtcgtc cgtatctcct aaggagaaga aggagaagtt aaggctccag actatccctg 180

gcagctaaga acggcgcaaa tcgtttaagg tcacaccgct aaagccaaag cctcgtcagt 240

aatagagtcg ccaaactcga gtcgcattcc cccgccaata ccgccgtagc accatagagc 300

ctcgccct 308

<210> 38297
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-024-Q1-K1-E1

<400> 38297

gagggccccc gtggcgacct gaagccatgg taggtgaact ggaaaaaaat gccatggcac 60

cggcagcgtg tctgctgttc ttgtgtacgc tgcacagcac aaccagatgg gaggctgatc 120

gacgaggagg gcgatgggta ctcccatgcc aatgatgtaa atgtaaagcg tcttccagcc 180

cagcaggcac tgtgcctttt caggcgacgt gtctggttcg cttgtgtgac agtgtctgtt 240

ctgaacttta ctttagcgtt agcctattaa cgatcggaga tcatgtaatg tatggctgtt 300

gtatcatagt attaataggg tgtttagttc gagtaatgag ttagtctatc attgtcttaa 360

aagagacnct gagaaaagaa gacaaagctg caaacagcaa ttattctgtt ggtgcaactt 420

aaaacaaaaa aaaggggggc 440

<210> 38298
<211> 492
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E10

<400> 38298

tggctctgga cctttgggct gatttatgtg cttgtttatg tgcttgtgga tgtgcgggtt 60

ggttattctc ctccttttg cgtagtctga gtcgacctgg tgggtctcgt tttaatactt 120

atttattcct gcttaacttt gacttaagat tgcgttgcga cttggtagta gtccttgtgt 180

ggttacgggt atgggtgtgg cggtggcggt ggtgttggat tgggttaagt aggggtgggt 240

tggtggctat tcgcggaaga aggtatcgtc ttatcctctt tctcgtcctg ctacgggtcc 300

tcctatgggt cctgtgttcc ttcttcgtct tcttcggaag cttgttgttg atatttctta 360

gtattatttg atgtattgct ttggggattg ttctgttgat ctttgtgcgg ttgctgatgt 420

gtgtgttatt tcgctcttga atgtggaggt tgctgacgtg tctcttgctg gagttatggc 480

ggatccgggt ga 492

<210> 38299
<211> 481
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E11

<400> 38299

tggctctgga cctttgggct gatttagtgc ttgtttagtg cttgaaattt cagtgagtcg 60

tccttcagca cacaaacgag tattatgtgc gcgcggcttc ctcgaagccc tggtggtggt 120

gcatgcagtg gtggctctaa ttttaggtga gtctggtctt ggctatttgc tgacttatgt 180

aattacgctg aggaggaaga ttagggagtt taaggaggag aatgccattt ccggatttat 240

cgcttgcgaa ggagagcccg ctcccggcgc cgtctatact cccgtacttc ctaacgatat 300

tcctacctac gctatcgacc cgctcgggag ggaaatcccg gcctggacta tcggcggtac 360

gaaggccaag gtcgactgcg tcgagctgct catccacgtc gtcacgtccg tcgtctaaga 420

cgccgtatag tgccgtaagg agtctggcac tattgtgtcg tataccaagt cctgcgtaat 480

c 481

<210> 38300
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E2

<400> 38300

cagacgcgtg ggcaacgacc tcgacgcctg tgcgtgtcgc atgggcggca ccacccagta 60

ggcggggaac aaccagatgg tcaacgccac cctgatgaac atcgacgaca accgcaccaa 120

cgtgcagatg ccgaggatgt acaacaagga cgacaacccc cgcgtgccca tcatcgagac 180

cggcaacgac ttctccacgc tgtacgcacc gctcatccgc gacggccgca tggagaagtt 240

ctactgggcg cccacccgct aggaccgcat cggcgtctgc aagggcatat tacgcaccga 300

cggcgtctac gaggaacacg tcgtccagct ggtctacacc tttcctggcc agtccatcga 360

cttcttcggc gcgctgcgtg cccgggtcta cgacgacgaa gtccgacggt gggtgagcga 420

<210> 38301
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E3

<400> 38301

cctaaacctt tagcatgacc taactgtggc attgcttagt atggcaggtt tcagacacag 60

cgtatgggtc aaccaaactc acattggcca aatcagcaag atgtacaaat tgtcttacaa 120

ccacaagatg aaacagacta tcagacatgc caatcaggtc agactgcatt gcatcaaaac 180

actattaata ctgatgagct ttcacgcaag gctagtgagg gtgggcatcc agaccatctt 240

aatgtccacg ggaaacaaca gcggagccct gcaagtgcac ctactgaatc aactcatgaa 300

cttactgttg ttgaaacaaa catagctgaa catgtagctt atgatgaaca acagaatacc 360

ttattagaac aggattcacc at 382

<210> 38302
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E4

<400> 38302

cctacacctt caccatcacc taaccgtagt cttgctcagt ctggcaaggg ccagacacag 60

gggaaggatc aaccaaactc acagtgaccg tatcaagaac aagtacaaca acggttacaa 120

cgaccacatg ctacagacta tcatccatca caagtaagac agactgcatc gcatcagaac 180

actcttacta ctgatacagc cgtcacccac ggcaaatgat ggaggccatc cagaccatct 240

tactgccgag acggatccgc gtctgacccc tacaagtgca cctactgaat caactcatga 300

acttactgca gtggaaacaa acat 324

<210> 38303
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E5

<400> 38303

cccacgcgtc cgcccacgcg tccgaatcac tgtctggatg atgagtgaac tacattgtac 60

atgtttgagt ttgttgagtt atattgtccg tggacaagct gtatctggat gtggtcaacc 120

ggcttcaggg gctcatgcgg ctggcctgtt tttgctctgt gctggacgtc tagtaagtct 180

gcaactctac atcatatgtt atgtagtgag tgatgttcag ttcatgttct gaattcttaa 240

tgaaatgtga tctgaatgcc tgacaattct agtattcata atttctatga tgctctgaaa 300

tctgaatgtt caatggtgtt ctgaaatctg aatcgtccac tctccactgt ccagttctag 360

tattcatatt cgttttgctt ggtaatttgg ttactttgat attgccttct atatgctat 419

<210> 38304
<211> 489
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E6

<400> 38304

actagtccta gatcgaagct gccggagatt ccactccccg caccattccg agctttgtcc 60

ggaccctact ccgtggctgc cagtcccgcg ggagcgcagc gcgcgctgct ctacggtcgc 120

cgcgcgccgt tcgcgggagc gctcctgttt ttcagcatcg gcgccgacag cgctgcggtc 180

gcgttcagga cagggtgcgc catctcacac cgacgtccca ccttactcgg ggcaagaggt 240

ctcagttcca ctagaatgga ctcagcttcg accacagtgc catccattgt cgtgtatgtg 300

acagttccaa atagggaagc agggaagaag ctgtcacaga gcatcatcag cgagaagctt 360

gctgcttgtg tcaatatagt acctggcatt gaatccgtgt actggtggga gggaaaggta 420

caatctgatg ctgaagaatt actcatcatc aagaccaggg aatcactctt ggatgccttg 480

actggacat 489

<210> 38305
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E8

<400> 38305

ggctgtcggc gtccttgtcc tcgtccgcct tcatcttcgt cgaggaggag gacggggagg 60

gctacgagga ggaggaggac ctggcctcgg acgcgggggc acgccgtgga cgtgccgctg 120

ccgatgcgtc ggctgctgac taacacggtg ctgaacgtgt ccgccgacgc ggcgctggcg 180

ttcgtggagc agggcgtcgg cggtagcggc ggcggcggaa aggcgtgcgg catcaacggc 240

ttcaagggtg ggctcgggga cggcgacagg ggcagcatcc tgtccatcac ggacgcccac 300

taccggcaga tgatcgaggc ggacccgggc aactcgttgc tcct 344

<210> 38306
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D2

<400> 38306

cccacgcgtc cggcgagtat gatgtggaca ttatcgatga gtgcacgggg gacgaggccg 60

gggaccagac gacggcagtc actgacccaa ccgcgttcaa ccttggtgcc gctatcctaa 120

gcgacaagtt cctcgtgccg acgccgatga aggaggagac cgcctacgtg gagttcatcc 180

agaagaggaa cgcccccgct gcagccgagc cagagctgat gctaaacaac cgagtgtaca 240

cctgcaacaa cgtccagtgc ccgcgcagct gactacagct acggattact ggaccgaaat 300

gcccgcaaca gccaccagta cacctgcaag cacaaggatc caacccctca gagc 354

<210> 38307
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C1

<400> 38307

gacacacgcg tgcaaagact catgagctgt ttcgttgtac atgccacacg cactacacgc 60

agggcagcgc tattcatata tagagaggtt agctatagct cgcacatata tgtaactaac 120

taactaactg gctcgctagc gtcgatccgt acagcacagc caaagcatct agaatcaatg 180

caaaggagaa ccctgccagt gtgctagtac taccagcgca ttttaccaaa ctgaccttca 240

gaaacctgta catccgccag gccgggccgt gcctcatgga gctaac 286

<210> 38308
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C10

<400> 38308

tttgggctga tttatgtgct tgttgagact gagcgtaagt agatccgcgc cgacccataa 60

cccgtttggc ggccgtcaac gacacgggac gaaatggccg ttggcccggt cgtcaccaag 120

gccgcgcaac tcgacgggta accctagtac ctcaacgttt caacgacgaa ctcccggtta 180

cccgtcgcct cgttcaataa aaacaaacgt cgattgactc acaaaggcac aacgtaaaac 240

aaagggtggt tgactcatag gacttaagtc catgcatgta cgtacgtgat gctacagtct 300

cctcacagcg ctattcaaac ctaacctatc ggttgctgcc ccataatact gagatcggga 360

aaatttcggt gccatttaat ccaactgttc cgtagcatac ttttcccctg ttagtcggtg 420

caacactcaa gaggtttgaa ttgactgctt ccatgaatag ccgt 464

<210> 38309
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C11

<400> 38309

tggctctgga actttgggct ggtttatgtg cttggcgctc tcgtagtttc tactagtggc 60

gttgtcttcg ttggaggttg ttattgtgaa taagtctttg ttgcggtctc tttctgctgg 120

tagtgctgct gttctcctta ttggcattgt ggttattagt aagaagtgga agtgggatgg 180

tagtagtggt gatgatgatg attgcggtga ggctgcggat gggactgagt ctaaccctga 240

tgttgtgttg tcgtttttcg agcggtaatg tcgttctgat actaagctgg ggtagactta 300

tcatcataat atgaggatga agaagtggat gcgtaaggat ttt 343

<210> 38310
<211> 490

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C12

<400> 38310

ggacctttgg gctgcattag tgcttggtta tgtgcttggc gtgacggccc tactaaaatt 60

aggaaaccgt ccgtgtcaca ttcgtcttgg tctacatccg tgaagcccct actatcttcc 120

ctatataagc aactagcgcg gaacgcgccg acgacaccgt aatcggccca atctgcgact 180

accacgaaaa acgtctttac gtaacgctaa ccacgatcgg gacttggcct cgtctctcgt 240

agcacagcaa aaacaagcct aagcactccg acccaagaat gccgtgcgga caccccagct 300

aagtagccgc caggcttacg aaacccttag tcgagctaga aaaggatagc gaacaccgca 360

tattcgagaa agtcaaaccc ataaagtaac cagagaggtc ccacctaaac gcccgggtat 420

caaaacccgc tgagtttttg gtagatccta cattactcca ctaaacccca agcaatgagt 480

agttcttcgg 490

<210> 38311
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C3

<400> 38311

cgcgcgtcgg tctgggagaa cttcaagaac taacccgctg tttgacatct cgaccgacca 60

cgcgaccgac atactacgaa gacatgcagc gctccgtgtt ctgcctctgc ccgttgggct 120

gggcaccgtg gagtcccagg ctggtggagg ccgtggtctt cggctgcatc ccggtgatca 180

tcgcagacga catcgtcctt cccttcgcgg acgccatccc gtgggaggag atcggcgtct 240

ttgtacccga tgaggatgtc ccgcggctgg acagcatcct gacgtccatt cccacggacg 300

tcgtgctgag gaagcaacgg ctcctcgcga acccgtctat gaagcatgcc atgctgttcc 360

cacagcctgc tcaagcatga gacgcgttcc accagattct gaacggactc tcgcgcaagc 420

t 421

<210> 38312
<211> 423

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C4

<400> 38312

ctctaaacga caagtttgaa gtattctata ttgactatgg caaccaagag gtggttccct 60

acagtcgtct acgacccgtg gacccatctg tttcctcttc tcctgctctt gctcagttat 120

gcagccttgc tttcataaaa gtgcccagtc ttgaggatga ctttggtcag gaagcagcag 180

agtatctaag tgaatgtttg ctcagtagct caaagcaata tcgggcaatg attgaagaac 240

gtgatgcttc tgggggaaaa tcaaagggac aaggaaccgg aaatgttctc attgttactc 300

ttgttgatgc ggagacagaa agtagcataa atgctaccat gcttgaggaa ggccttgctc 360

ggcttgaaag aagcaagaga tgggacacta gggagaggaa gacggctctc cagaacctgg 420

aac 423

<210> 38313
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C5

<400> 38313

cccgacgcct tgctccggcg tcaagggcca caagaccccg ccgcagttcc cgcggacgcc 60

gcggccgtcg ttcttgcagt cgccgtcgac gctgttcgcg ttccggaagg acgggcagca 120

gaccagccgc gtggagcgcg agcgcgggtc cttcctcccg tacctgcgct tctaccgccg 180

accctacgac gagatttcct accgcgccat gatgcgcccg ccgctcggcg gcctgatacc 240

catcgtcgag aagttcaagc acaagccggt gcagcagacg ctgcgtcggc acgctgggct 300

ccaccagcat cagcagcacc accattacca acagcagcag aggatctgag tctcgtctct 360

cggtcggtac tgcatggcga cccgagaatt ttctccatat acagcataaa ggcgatgcta 420

tattatgcta agttaatc 438

<210> 38314
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C6

<400> 38314

accgacccct tgctccgtcg tcaagggcct caagaccccg ccgcagttcc cgcggacgcc 60

ggggccgtcg ttcttgcagt cgccgtccac gctgttcgcg ttccggaagg acgggcagca 120

gaccagccgc gtggagcgcg agcgcgggtc cttcctcccg tacctgcgct tctaccgccg 180

accctacgac gagatttcct accgcgccat gatgcgcccg ccgctcggcg gcctgatacc 240

catcgtcgag aagttcaagc acaagccggt gcagcagacg ctgcgtcggc acgctgggct 300

ccaccagcat cagcagcacc accattacca acagcagctg aggatctgag tctcgtctct 360

cggtcggtac tgcatggcga cccgagaatt ttctccatat acagcataaa ggcgatgcta 420

tattatgc 428

<210> 38315
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C7

<400> 38315

cggacgcgtg ggctggcgag gcaaaagcat tgcgaccaca gacagcgcgc gcttcagggc 60

ctttttttt tttgagataa caaggaggag aggaggagat ggcggtcacg atcacgtggg 120

tgaaggcgag gcagatcttc gacagccgcg gcaaccccac cgtcgaggtg gacgtgggcc 180

ttagcgacgg cagctacgcg agggggggccg tacccagcgg cgcatccact ggaatatatg 240

aggccttgga gttgagggat ggaggatctg attatcttgg caagggtgtt cttaaggctg 300

tcagcaatgt aaataacatt attggaccag caattgttgg aaaggacccc actgagcatg 360

gtgagattga caacttcatg gtccaacagc ttgatggaaa cctcaatgag tggggc 416

<210> 38316
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C8

<400> 38316

aagagaaagg ctgatgagag tctacagagt cttcatactg tattgtatgg gagaaaatca 60

ggtaaccatt ttttgaagag aaacatatct caattttccg ggtttgtttg gacagacaat 120

caagaaaagc acaggaccaa aataaaggaa aagcttgaga aatttaacaa ggagaagttg 180

ctagattttt gtgaaattct ggacgttatt gtaaaagtaa ctactaagaa ggaagaagtt 240

tctgccaagc tcttggaatt tttagagtct ccttgtgtta ccagggatgt tattctcact 300

gataaaaaga aggggaagaa acgcggaagg aaatctaaag taagtcgtga ggtaacttct 360

gaaggtgctt ctgcagagaa gaaaaggaaa agagttcaga aacaagcagc tgaaaattgt 420

aaagaagaat gatgatgggg atgatgctga tcttgctggt tc 462

<210> 38317
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-024-Q1-K1-C9

<400> 38317

tggttggacc tttgggctga tttagcgctt ggattttatc gagtaggccg agaccgataa 60

tcctacggct taatagtccg acggaatgct tagagagcgg ggtcggcgta aatagaagtc 120

cggagtaaac gttacttccg tggccctatc cgtcgcgcgt aaagtcggag tcacggcgaa 180

gaagaccttc tcccattagt atactgtana ctccgtcggg aataaaatct cggcgtcttt 240

cgcattcgtt cccaacgcga ccaacggagg gctatacgtc ggaaataagt ccgttacgta 300

ggagcctacg acttcnttaa tcggcgttcn tctgcctaag gaggttacga agacgggagc 360

cgaagcgcat tataattcga agagtacaac taagaagaag catggctagg acgtgataaa 420

cgccggggac 430

<210> 38318
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D1

<400> 38318

atcacacgta cgatgctgaa cttgaggcgt ttgctttact agagactcca actgaaccac 60

ggcatagggt tgatcgtgat aggcttacta gatatccgcc tactaatgca tctaagcata 120

ctatggctca tatacaggcc cagctctaca gcacaatcac atgcattaga tggtggcaaa 180

gaccatgatc ctcatgcaac ctcatatgct gtcacgaaca ctcacagcaa catggatcct 240

gttgtacaga taagtatctc tcagttacat gacatcactg cgctaaaggc caatcaagga 300

tacaggaaaa gacatgtgtc acatgagaaa atttctgatg agacagcaat tgcttgaata 360

accactggaa atattaagaa aaat 384

<210> 38319
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D10

<400> 38319

tggcttggga cctttgggct gatttatgtg cttgtggatg tgcgggtggc tgtgcgggtc 60

agcctcagac tgtgagtggt tgtttccacc ggcggggccc ccccctacgc ccccccggcc 120

cctcctcggc gccctatgcc ctctaactcg tcaacgaaac ggaagtattc gatgctagac 180

tacattcggc ggtaatcact taccaaatcg aatcccatcg caatcgtatc gcctaactaa 240

tcgcagtggt caaccagtca gtccgtcatt cgttggggtc acggtaaacg tacaaatcga 300

tacaagctat taggagcaag cgcaatctct gagcttcgtc tccgccatcg cccgggcatc 360

gatcgcgcta tcttatcatc acccaagaac tacagtagca agcccatcag cgctctcgtc 420

gct 423

<210> 38320
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D11

<400> 38320

ggacctttgg gctgatttag tgcttggaag ccgcggatat aatcgcggac aagtacgacg 60

aactgaagga gtaagaggaa ggcgccctgg tcgagtaaga cgagaagtaa ggagaggaag 120

tagaagaaaa aggaaaagaa acggacgttg acgagaagta agaagaggaa gtagaagaaa 180

aaggcctcgt cgacgagaaa gacgaagacg aaggcgatta gaagacggaa gagaacaagg 240

aggagatctt gaagaacaag aaagtaagga gcgttaggga cagaagttag ggaaacgaca 300

acaaatacga cggactaaaa ctcagggaag ttaaaagccc gtcgaatatt ttaagtttac 360

acggcattga ctgcttctaa tgcgagagga aaacagcgga aaagccggcc gaagcgaccg 420

agaaagagtt aaataggaac cctgc 445

<210> 38321
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D12

<400> 38321

tggctctgga cctttgggct ggtttatgtg cttgtttatg tgcttgttta tgtgcttgtg 60

gatctgcggg ttggcgttga aggtttcgga tagacggttt gcactccgga tgagagtgta 120

gtagtcgtta gtcttgaaac tggcggttgg actgtttacc tctcagagtt gcggagttgt 180

gttggtgcga cgagaagaac agccggggtc gagaacgaga tgacagttga gccgacgaag 240

actcgtattc tgaagtctaa gtcttccgtg cttgtactag tcctttcgct tccggcgccg 300

tatcaggtcg ggaaaccccg actgcgagac ccccccccact tctacttttg atcgtcgctg 360

cgttccttct ccgtttttcc gacgccgcaa attaaatcaa cgcgtgtcgg cgcccggcgg 420

cctgacgtaa ccccggcccg agcgatacgt cag 453

<210> 38322
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-024-Q1-K1-B9

<400> 38322

ggacctttgg gctggtttat gtgcttgttt atgtgcttgt ttatgtgctt gcttatgtgc 60

ttgcttatgt gcttgtttat gtggttgggt ctccacttac gggtcgaata gatatcatca 120

tctgaccgta actaaccatt gaaaaaacga atccgaggag aaaacgccgt cgaatccgta 180

taaaaagaaa cggatagacg ggtcaacccc gaagaggccc gatatctacc taaaaattaa 240

tgagtagatc gcttaagaaa cgtcaaattc agttactaag cataataagg tggcgtaaga 300

ggaagatgaa tcgttattcg agaaatccgt gacagtaaac gcaggctggt aagacgtaaa 360

aaagtacccg gaagagtacg cgcttaaccc gacgctacta aatacagcct agatttcagg 420

aattacgtct gatatggccg caccncagct ctcatcaac 459

<210> 38323
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A4

<400> 38323

cccacgcgtc cggtggtgct ggcggcggcg ctggctgcca tgtggtggcg tcggtgctcc 60

aagaccggcg gtgtcgacag cctgccgccg gggcctccgg gttggccggt ggtggggaac 120

ctgttccagg tgatcctgca gcgacggccc ttcatgtacg tggtgcgcga cctccgggag 180

aagtacgggc ccatcttcac catgcggatg gggcagcgca ccctcatcgt ggtcacctcg 240

gcggagctca tccacgaggc gctggtgaag cagggcccca tgttcgcgag ccggtccgag 300

gacagcccca cccgccttct ttcagcgtcg gcaagtg 337

<210> 38324
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A5

<400> 38324

gggggacggg cagagcagag ctgagctgat ctgcctccaa ctccgaccca cacccacggc 60

acggcagtcg gcagcagcca gcgtcgagcg caatgccctc ttgtctgctg cctcctacct 120

ccccgcccag tctcactcac acgctcccac ttccgagtct cgctcgcagc ctgttctcct 180

ggggtccgat cggaggggg tgaggagatg gagccagatt cggcgacgac gaggctcgca 240

ttgctggcgc tgcttctcct ggcggcgccc gcccgcccgg cctcggcggc tccggtggag 300

gatggcctgc tcagcaatgg tgactgtgag acggcaccag gcggcggttt cgtaagatct 360

gcgtctgttg ctg 373

<210> 38325
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A6

<400> 38325

ggggggacggg cagagcagag ctgatctgat ctgcctccaa ctccgaccca cacccgcggc 60

agggcagttt gcagcagcca gcggcgagcg cagtgccctc ttgcctgctg cctactacct 120

ccccgcccag tctcactcac acgctcccac ttccgagtct cgctcgcagc ctgttctcct 180

ggggtccgat cggaggggggg tgacgagatg gagccagatt cggcgactac taggctcgca 240

ttgctggcgc tgcttcttct ggcagggccc gcccgcccgg actccgcagc tcctgctgat 300

gatggcctgc tcagcaatgc tgactctgaa accggaccag cctccagatt cgtaagatct 360

gcgtctgttg ctgagggtgc atacgatatc cctggttgga caatcaatgg cacagtcgag 420

ctcatttc 428

<210> 38326
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A8

<400> 38326

cttccccgcc ccctccgatg gggaacccgt cggagctgta ccacaagatc ctcaacatcc 60

cggaggacac ctcgccgcac gaaatccgcg ccgcgtacaa gaacctcgtc aagaagtggc 120

accccgacaa gcacccgccg tcgtccaggc cggaggccga ggcgcgcttc aaggccatca 180

gcgaggccta cgaggcgctc ctggaccagc aggagaacag gggcgtgttc gagctgtgca 240

acgacggccg ggcgggtgag aggacgcgcg gcgccttcgg cggcgccggc ggcggcggtg 300

gcggaggagg aggaggcctc ggcgccggcg tcggggcgcg catggagagg acgcgcagcg 360

acgggttctg cacgaggagc gcgcccggca cgccggcgag ggagttcaag aaggtgtaca 420

gctccggcga ccccggcggg cgccgcgcct tcggcgagtt cttcagcttc atcgtgc 477

<210> 38327
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A9

<400> 38327

tggacctttg ggctgcatta tgtgcttgtt tatgtgcttg gttctgctga tcgcagcggt 60

tcagtgatcg tcgcggcgtc taggagtagc ttctgcgatg tgaagtaggc ctcttcttat 120

gtgggtttcc tcaagacagt gcgtgttatg gtcgtcgtgc cgcgtgagag gggtgcttag 180

gctgctacga atttaaataa ggaacacgat acgtctaagc tatagaccgt agacagtaaa 240

gtaagtcacc gggaatgatg tcttgataat tattatatgt tctaggcccg gtcagcagat 300

agtactgatg atgaggaata gaagacggta ttgaaaggag ttgcacctgc tctaactcta 360

tagcctttta ctaagaaaac ttgtaaggac cgtattcatt cgagtatctt agtaacgaag 420

actttcgaaa ttacgtaaaa cacttacgtt cgtgagaatc ggt 463

<210> 38328
<211> 102
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B1

<400> 38328

gtcgcacacg gtcacctacg ctttgacttt cgcatagtat atgccacact cactataacc 60

ggagtgggca tatacgtata ctgaggggtc atgcctcaaa tt 102

<210> 38329
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B10

<400> 38329

gacctttggg ctgctttatg tgcttgttta tgtgcatggt cctcttcttt gtattggcct 60

tcgcctaggc ctcggcctgc gggtgagagg gaagagatgg tggtgctaga tgtcgagcat 120

tgaggtcctg acggtggttc tgatcgggtt attgatgatt atccttctaa taatgttccg 180

agtattcatc gtgaggcttc tgagctgaag actacttcgg actgggagat gtagaggctt 240

tgtggtcctg gtcctgctat tcctcttatg gaggatgtga cgtgtagtgt tactgagggt 300

acgaatcgtc aggagtctga tggttgtaat actattgcca atgaggttta gctttgtggt 360

agttgcggag g 371

<210> 38330
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-024-Q1-K1-B11

<400> 38330

tttgggctga tttatgtgct tgtttatgtg cttgtggatg tgcgggttat cttagtatcg 60

aatatccgac cgacctagca ggcagtcagt cagtcgaact ataacggact tcattaagcc 120

ttgcttgctt agcagttatg atatgatggc gatgatgatg aatgtgggtg tcttcgcgcg 180

gaatgataat gaggtgtcga tcgcggggtt ctgtggcttt acttcgtcgg aggatcatta 240

ttcgactgag aaggcggtgt atcctgtgtg tgagtgtaca ttggagtgtg cggcgtatgt 300

gtgtggggtt cntgataagg gtcctcctga gcgtatttat gatgcgatgc tgtcgatgcg 360

tgttgatcct tcgtgtgtgt ttggtgcgtg gatgtttgcg actgcgtgtc ctctgatggc 420

gacttatgag tgggggcttt tgg 443

<210> 38331
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B12

<400> 38331

cactggcccg gacctttggg ctgatttatg tgcttgtcgt ctcttgattc tactaattct 60

gcatctctgg gttgtattgg gaagactact gttgagcata ctcgggccgg tggccttggg 120

acggatgcta ggagtaaagt taggatgtcg catggattcg ccgacgattt tagtaagtcc 180

ttgaagcgga atcctaatgg tcatagtatt ggttaagtct tgggtgatga tagtgaagct 240

acttcccgtt tctgggttac tcctaaggat ttgcctacga aggggtagaa tacatcggct 300

acgcgtgatc gtcatgagtt gaatggggag ttgactttga gtaataagtg gtatggggtt 360

gtgaagactc ccagttattt cgatgctaag gtcgatgaat tacggcctgg gaccgagtaa 420

gagcatattt 430

<210> 38332
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B2

<400> 38332

catcttctgc ctgcctcggc acccgggcct ttgccttgtg aacaaaagtc gtcgcgttcc 60

tggtggctga tgaaatcctc ttctcgtcta gatctgagcc tccgcctgtc tttcggatca 120

gatgcttggt ccgatcgaac aacggtgagt cttgctctgg tatttgattg ttctaaacgc 180

atggttttgt ttttgtgatg atgtgcaggt tccgatctgt ttcgtttgat tgatgagttg 240

acgcatcggc tcgaaacgag gctgcatggt ttttgtgcct ggaggtttct gattagcgtg 300

tttaaggaaa ctgggtgcca caatttgttg ctagaagtgc tcgatccgtc gaattgatat 360

ctgccgagct gcgacgttcc gggggatctg gatcttagcg gactggacat 410

<210> 38333
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B3

<400> 38333

atcgagtctt atcgtccgtc tctgcgcctt tacgctgaga cggtttgttt gggttaatta 60

agttagcttt cgtggagatt tcgtcccggg gcatcaataa aatgttggca tgcgtggtgg 120

gatgctatcc ttgatcttat tttattgtat tttattttta gcttggatca gttggggttc 180

tgaacattgc tagtgtcatg tgattgggaa ggctaatgtg atgccttcga tgcagagttt 240

tc 242

<210> 38334
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B4

<400> 38334

aatgcatgcg tcctgcactc ctgctccacc tagattcgta cacagcacac tcccaaaacc 60

agagccacgc cggtcggcac accgtcgcct gctttgacta gcctcgccgc cgcagcgaca 120

gccatggcca ccgctgcccg ctccctccac ctccctggtc cgacgcctcc taaatcctct 180

acccccttct cccaccgcct ccctgtccct tgccacctcc gcccgcaacg ccggcgcctg 240

gccgactcgt cctccgacct cacctgcttc cccgaaccga ctaccgtccc gaacggcgtc 300

tacgtgccgt gggcggcggc cttctccgtg gcc 333

<210> 38335
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B5

<400> 38335

tgctcgtgct gttgccgcag cattgtgtat gaagaatatc aaggtagtaa tgaccagcaa 60

gcaggattac cattttctta agcctaacat ggcagaagat gcagctgaga acctttgtt 120

ttcaaagaca actactgcaa aggtgtggtt aattggggat ggtctagatg cttctgagca 180

gtttaaggca cagaaaggga cccagtttat cccatattca cagtttccac caagaatggc 240

acgcaaggac acctgcacct actcgacaac tcctgcaatg gttgtaccta aaacactaca 300

gaatgtgcac tcctgtgaga attggctgcc aaggagggtc atgagtgcat ggcgcattgc 360

tggaatggtt catgcattgg aaggatggaa cgagcatgag tgtggggaca tcgtgctaga 420

catggagaaa atgtggtctg gtgctcttct gcat 454

<210> 38336
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B6

<400> 38336

aacaacagca gcagccgtgg cagcgaagaa gtataaatct ctatgcgaga atatcgagaa 60

gggataccca acagttctgg cttctcgcat cacatattat atcccataat cccatgagtt 120

cgcattcaca tctgcggcag tgtgatgaat aaaatgatcc atgttaaatc tcttggacct 180

aatacggcta tagcaataat cctgtgtcaa cttagctcga gctgttctac gagtgttgag 240

acgcttatac tctgtgtact agttatcgaa ttcctgtata gcagcttgta tgacactaca 300

taatgtgcta taatagtcat actagctgcc aaagaaggtc atgagtgcat ggcgcattgc 360

tggaatggtt catgcattgc agggatggaa cgagcatgaa tgtggtgaca tcgtgctaga 420

catggagaaa atgtggtctg gagctcttct gcatggtttc cgccctgtgg 470

<210> 38337
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-024-Q1-K1-B7

<400> 38337

ataatctgtt cttcacctca ctaacaccag ctagcaactc tttctctcct gcaataatgg 60

gcgctcgctc ctcctcctcc cagccgcagc tggtcgcggc ggcggcggtc ctggcagcgg 120

cgctgctgct gctggcggcg ggggccggga cggcgtcggc ggcggtgagc tgcggcgagg 180

tgacgtcgtc ggtggcgccg tgcctcgggt acgcgatggg cagcgcggcg tcgccctccg 240

cggcgtgctg cagcggggtg cgctcgctca acagccgcgc gtcgtcggcg gcggaccggc 300

aggccacctg caactgcctc aagagcatga cgggccggct cggcggcggc gtcagcatgg 360

ccaacgccgn caacatcccc ggcaagtgcg gcgtctccgt cggcgtgccc atcagcccca 420

ccggcgactg caccaagatc aactg 445

<210> 38338
<211> 492
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B8

<400> 38338

cactaataca aaacataaga attcaacgac tgcttattgg gcagataact gggatgatat 60

tggtttggat aagagaggca accatccatg ttttgatcca agaaaggatc tagtgcttcc 120

ggcatggaag gaacctaacc caggggccat atggttaaaa ctgtgggcaa ggccaaggaa 180

caaccgtaca acacttttt atttcaacgg taatctaggt tcagcatacg aaggaggccg 240

tccagaagac acgtatagca tggggattcg gcaaaagcta gcagctgaat ttggttccac 300

accaaacaag cagggaagcc ttggacggca gcatgcggcc gatgtgacag ttacctattt 360

acgaactgag aaatattatg aagaactagc aagctctgtt ttttgtggtg tcctgccaag 420

ggatggctgg agtggccgta tggaagatag catgcttcaa ggatgcattc ctggaataat 480

tcatgatgga at 492

<210> 38339
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-024-Q1-K1-A3

<400> 38339

gacgccacgc gtacgcccac gcgttcgcgt gttcacaaac gccggcgcaa actctcgccc 60

gagcccgaca gatcttgaat tgcccattcc ggccaccgat cgaccttcac gccagtctcg 120

gtctcttccg aaggcgtcgc gcgcggttgt ttgagaggag aggaggaaga tgagggagtg 180

catctccgtc cacatcgggc aggccggcat ccaagtcggc aacgcgtgct gggaacttta 240

ctgcctcgag cacggcatcc agcctgatgg ccaagtgcct ggagataaga ccgcgggaca 300

tcacgatgat gccttcagca ccttcttcag ccagactggt gctgggaagc acgttccccg 360

tgcaatcttc gttgatctag aacccactgt gatcgatgag gtgcgcactg gcacgtaccg 420

ncagcttttt caccctgagc 440

<210> 38340
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-G2

<400> 38340

gtccgcgggg cgcacacgtt ccggtgcccc aacctggggc tcaccagctt ggtgcgcctg 60

cccatccacg acgcggactt cgggtggggg cggcccgtgt tcatgggccc cgggggcatc 120

gcctacaaag ggctcgcgtt cgtgctcccc aacgccaacc gcgacggcag cctgtccgtg 180

gccatctcgc tgcaggcgga gcacatggag aagttccgga agctcatcta cgacttctga 240

tctccaactc ctncccacaa gtcatcagta ccagtacgcg caacacaaag aagcaag 297

<210> 38341
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-G4

<400> 38341

ggcaaaacat atttttggga aaaacctttt tctgatttaa ggttacaggt agaatggggt 60

cccgaaggag gcctttgaag gtggcaatcc gattcctaac ctaactattc caaaaaagtt 120

ggtggacccc ttggtcttgg aaaagcaatc ctaaatggtg agccctctgg attttgtgct 180

gcagcttatg gagatgctga ccgcaacatg attcttggta aaagattctt tgtgacaccg 240

tcggactctg ttgccattat cgcagccaat gctgttcaat caattcctta ctttgcttct 300

ggcctgaagg gagttgccag gagcatgcca acatctgctg cccttgatgt tgttgcaaag 360

aatttgaacc ttaagttctt tgaggtgcct actggatg 398

<210> 38342
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-G7

<400> 38342

atgtacttgt ctcctccaca gttattaagc cgcccatcct tgtagcggtt atatcaggtg 60

agaaacacac ccacactgtc accagaggac agacagcggg cggcgtacgc agtcgcgatc 120

acgagcacgg acgagcggtc acgcgaaaca tcacagtcaa aagagaaacc cagccaacag 180

actggaggcg cccatgcgcg ccttcattac aaacacagaa aagaccgacc ccacgccaga 240

tcagagagtc cggcgcgcgc gcgctcgcgt cgctcagacc ccagagagag accagagcag 300

agcgcgc 307

<210> 38343
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-G8

<400> 38343

gcgctacaac tagaatcacg atttctcatt tactggagca tccttggttc aaaaaggggt 60

gcaagcctcc tgtttttgac gagaaatatc aaactagctt ggatgacgtg gatgctgctt 120

ttggagattc agaagaccgg catgtgaaag aggaaactga agatcagcca acctcaatga 180

atgcattcga actgatttca ctaaaccagg cactgaatct ggagaatttg tttgaagcaa 240

aggaggagta taaaagagag acaagattca cctcacagtg ccccccgaaa gagataatca 300

caaagatcga agaagctgca aagccgcttg gctttgatgt tcaaaagaaa aaatacaaga 360

tgcggatgga gaacccgaaa gcaggtagaa agggcaatct gaat 404

<210> 38344
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-G9

<400> 38344

aacaaacagc aacaagaaca tactggtttt acaccacaga agggccccag cttcccggga 60

tcaccagctg gccgggcaac aacttcaacc cgccgggcaa cacaacaagc ggcagccaaa 120

actaaaggag tggctggtat gggatcttaa cacatggagc cgcccaccgg atgtatattt 180

taaccaaaca agcaaaactg ttccagcgat tgacagttga tgaaggtcat tggttgtatt 240

gtatgctaaa ctgctgcagc aatagaacac actgattgcg tggaagttac tcttccatgt 300

gcctcgagtg caaagcagag acaaaaaaac tgtacgtgtt gtagacttgt agctggtgct 360

tgaatcagtt ttgtacccac atcgaaaaca attcctgttg gttacacccc gaaaa 415

<210> 38345
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-H1

<400> 38345

acacacaccc cgcacaccgc accagctcag ctcagctcag ctgaccaaga caatcaatca 60

tggctctgcc gcgccagggt cgctgccgct gccccccctcc tcctgctgct gctcgtcgcc 120

gccgcagcgc agctcgtgtc ctccgtgtcg ccggcagaca gcgacattcg tcacaagtcc 180

tgccgcacga cccattaccc gcccgcttgc gagcagagcc tggcctcgta caggagctcg 240

tcttccacgc gg 252

<210> 38346
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-H11

<400> 38346

gcgcctctga aagttcggag tttccggtct gttcgcctac gtctccgcct agcgtcccga 60

agggtaatac ttgtcaagtg gcaatggcgg accaaggtca ccaacccact gttcttcata 120

agctcggtgg ccagctacag ctgcgctcga tcatctatga acgtgttctg gcacgtaaca 180

tattgccatc tggcttatct tatgaaagga gatgtgtcac aaggaactac aagaccgaga 240

gcctttgggg cccttcaatg tgagctagcg gtggcatgaa tgtaccagcg atgcagaccc 300

cggtttgagc taatgctcct gc 322

<210> 38347
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-H2

<400> 38347

cccacgcgtn cgcaaaggtt actacatttt ttataagggt gcgaagccaa agccagacgc 60

tagtgttaag catgtgatcg aggagtaccg aaagcaggca aacacaattg cctggtggaa 120

agcctgttac tttaatggat caagatattt tggagatgat tttcttccca gttgtgaatg 180

aggcatgcag ggttatggat gaaaatgttg taattcgagc ttccgatctt gatattgctt 240

ctgttcttgg aatgggcttt cccaaataca ggggtggtct tgtcttctgg gctgacactg 300

ttggagcgcc ttacatacat tcgaagctaa gcaagtgggc cgaaatgtat ggtcccttct 360

tcaaaccttc atcgtatttg gaacaacgag ctaaaagtgg tgtaccattg agcgcaccan 420

gaacatcac 429

<210> 38348
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-H3

<400> 38348

aacacaaact tgtatttgaa gaacttaaaa gagaacattg gtgatgagaa attgcgtgga 60

ctctttgctg agtatggcaa tattacttcc tgcaaggtta tgcgggattc ggatggtgtc 120

agcagaggtt ctggatttgt tgctttcaaa tctgctgaag atgctaaccg agctcttacg 180

gagatgaatg gcaaaatggt tggaagcaag ccccttttatg tagc 224

<210> 38349
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-H4

<400> 38349

tttggaaagc aatgacaaaa acccctgcat ctattgccct aatcatctac acattcattg 60

caagttggtt tggtggtggc ctctctgtgt tccatctgta tctcatgagc acaaatcag 180

caacatatga gaacttcagg tatcgctatg atcagcgaga caacccatac aacaag 219

tcatggaaaa catcaaagag atcttcttta caacgatcc

<210> 38350

<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-H6

<400> 38350

gtcgccttcg aggccacgcg cctcgtgctc atccagatcc tcctcacctc caagggcatc 60

tccctcaacc ccatcacctc gctctactac gtcgcgccct gctgcctcgc cttcctcgtc 120

gtgccctggg tcttcgtcga gctgcccagg ctgcgcgccg tcggcatctt ccagccggac 180

ctcttcgtct tcggcaccaa ctccctctgc gccttcgcgc tcaacctcgc cgtctttctg 240

ctcgtcggca agacgtcggc tctcaccatg aacgtcgccg gcgtcgt 287

<210> 38351
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-H7

<400> 38351

cccacgcgtc cgggccctca ggttcgttgg gaaggacctt tgcctgctca ccgggtgggc 60

gtggcggccc gtccagacgc cctccttgcc gttgagagct gaaatcgttg ttggttaccc 120

agccagtggt agatcttctt cgtactatac tcctgcttga gtttcttgtg ccacttcttt 180

tgcatctgta gctagctagc tggctgctcg atttggtcgt cagttccgag atgggaaaac 240

gaaaacatct cttctcgtca ctaatcgcta gatccattca cagtgatagt tactgatgta 300

agcctactaa ttagtttaat ggcagatcaa ccttgtttag cctaattagt tacttggtac 360

tactgttctt t 371

<210> 38352
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-H9

<400> 38352

atcatttcaa tgctctctat tacgattgtc tagtctgcag cacacaatga agctgctcgg 60

tgcctttgta cagagaagcg gtgatgagtt ctcacagaag gtgacgcaaa gtgtactgct 120

gtcttatgag atgctgactt agacgaacat tgtggagtcg aatgagtctg caatcggtga 180

gctgcaattc acaaccaatt atctcatgcc atcattcttt tgctttcccc tgtatatttt 240

ttcaaccggt gtcactcgta tagtggtgtt gggtctcttt agacaaactc gggacggttg 300

cttatcctaa aaattcgatt gtactgcgtg gcatgaaatg atcgattcga agaatatttt 360

gaacatgctg ccacctaatc aaaaaatttc atgtttaact tcataaggaa taacttgtgc 420

ttattct 427

<210> 38353
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A1

<400> 38353

accgctcgga cgtgcgcgct taacgcaacg gctcagccct cagaccgagc accaggcatc 60

ggattctgat cgtaccgccg gtggactacc gcttgagttg gcagcagaga cttgacagtg 120

gctccaacaa ggcaacacat tccatcggca ccaacccagc gcggcgccac cggcgacccg 180

tgcccacttt ctaggagagc gatagccacg gagctgacct ctgcgcaact gagcacgtac 240

tactgcacct gcacgctcaa ggccatctac gtgctcattg cgcggcaagg tctacgacgt 300

<210> 38354
<211> 139
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A10

<400> 38354

tggctctgga cctttgggct gatttatgtg cttgtttatg tgcttgttta tgtgcttgtc 60

gatgtgcggg tcgtagaagc tgccccgaga gaggaccaag tagttctacc taggagcgga 120

ccgattattc agttcacaa 139

<210> 38355
<211> 438
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-024-Q1-K1-A11

<400> 38355

ggcctggacc tttgggctga tttatgtgct tgacgtatgc ttagacgcga ctatacccaa 60

tacatctaca gacctacana ggagaaaata gataccccac aagacggagt aggcgcctaa 120

gagttcatcg tggctaaagg ggaggttcat atatttgatg cccaacctta cgacaataaa 180

ccacgggaga gtaaggtcta tagagaaagt ggagctcgcg gccgagaaga cggaagaacc 240

gggacctaaa ttaaatcacg cgatatagga acgttctact acaacgcatg tctaccgcga 300

ccgcgcacta caggtttggt atgcgcccga cgagtccgcg attctgtaga ataaagcgta 360

ttcactcctg ccgaatctga cgtcggaagt tcatcgtacg aatcgtccgt atatagaagt 420

agactggtcg tcggacat 438

<210> 38356
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A12

<400> 38356

tggcttggaa ctttgggctg atttatgtgc ttgggaaggg gtatggcgga gagcggagaa 60

tcggagatgt agtggagttt ctgttcccct gactcggctt cgtcttcgtc gtttggcagt 120

ttgttgaggg agatgtcgtc gattcgatga atcgagttta tggatgagaa ggaggggtat 180

attatgtagg agattggagg agagtgtgtg tgtggactta ttctgcacat atctcttctc 240

ctcctcttgc gcttccggtc tagacccagc cgtcgtgttg tcctccagga ccgaccgtcg 300

tcctatttag cgactgtgct gctactcctg tgcccgtcca actgttcggc cgtcgtactg 360

gccccccccc cggcgccgcg cggccggggg cgtgggtata aggcccttct tcgcccagtt 420

cggaccggcg caggaccctg acgcgactga cgttggttga aaataaaa 468

<210> 38357
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A2

<400> 38357

aacacatgct cctgcgcgtt ctactcacac acttagcgcc tacaccgctc accatgcgat 60

cgagtctgac agcaccggca agtgccaatg actctacagc tgatcatgca gtagctaatg 120

catctgactg ggcaatactg tgcataccga ccaacccagc aggatgaaaa ccatgatcct 180

tgctgcttct accaccaagg gaagggcacg cagcttacag gcgggcaact acggccgtac 240

tagcgactgt aacagctgaa agcgatgtac cagttgatgc tgctcactgt gtacgatgta 300

actcagcggc cgccggtcct acagactgct ctcacgacta ctaccgaatg accaccacga 360

gag 363

<210> 38358
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-G12

<400> 38358

gcgtcccagt cctcggacgt ctacagtttc ggcgtcttcg tgctggagct cctcacgggg 60

aagtcgcccg tccagataac cggcggcggt ggcggcgacg tggtccacct ggtgagatgg 120

gtgcagtcgg ttgtgcggga ggagtggacc gccgaggtgt tcgacggcga gcttctgcgg 180

taccccaaca tcgaggagga gatggtagag atgctgcaga tcgccatggc gtgcgtgtcc 240

aggacccccg agcggcgtcc caagatggcg gacgtggtga 280

<210> 38359
<211> 306
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-D9

<400> 38359

aaatttcctt tgctccccca aanctaccgg taatgggaat tcattttgat ctttaaactt 60

tgtaaccatc ttttacttga gcttcattta atcaatttga tgcactgctc attaaattaa 120

ttggaacata actttctgtc actagatctg gttgagcagc tttagaactc taacatatct 180

aaaagcataa gaagttaatg tattttataa tcaaaatgac tcatcttgac aaaattgaat 240

tacttctgga ttatggttca ccttatgata tttggagctg ctgattccaa tattattttc 300

aatctt 306

<210> 38360
<211> 308
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-E1

<400> 38360

tacggattgt cgctggatga ggaagcctta cccagatgca cactanctgt tttctcagcc 60

tactactgtt gcagctaacg ggagatccat atttgcatgc ttgcttgata aagtgagcca 120

atacttaact gaagggcttg accgtgctag agagagtnta aatgaggccg cagctttgcg 180

ggatagatat gtcatcggga caagtgttag taggagagtg gcagctgctg ctgcttctgc 240

acaagaagtg gcagcttcag ctggtgagag cagctntaga tcctttatga ttgctgtgca 300

gcgttgta 308

<210> 38361
<211> 293
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-E10

<400> 38361

ccacccaanc gccatggccg ccgccgcccc cgacgcagac gcctactata tcccgtgggt 60

ggagaagtac cgccccgccc gcgtcgctga cgtcgtcgga aactccgatg ccgtcgcccg 120

cctggaggtc attgcccgcg acggcaacat gcccaacctc atcctcttca ggcctccggg 180

gactgggaag acgacgagca tcctggcgct ggcgcatgag ctcctcgggc ccagctatcg 240

tgatgccgtg ctggagctca atgcctcaca tgacaggggt ttggatgttg tgc 293

<210> 38362

<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-E4

<400> 38362

tcggggcttc tttgaaaact ggtggaagat tgtttttttt ctggcccttt ttcttttcgg 60

ggtccttgta aggttttctt tttgcttgct tgcacatggg attcctacat ccatgaatcg 120

tgatatccgt cgtctaacct agtacgcaat tctagctagt aaccagcagg atcaaatata 180

cttccttttt cttcataaaa aaaaatatat agattcccat tacaagtgct agctagtgcg 240

catgcactaa ctggtataga atagatagat acaatattat tctcgttggt gggcggagat 300

gaaatatact atcgatcacg ttgtatttga gaacgtagag aatatgttag tacacaacga 360

ctatatatag ctaggcagca tgcaggtggc cacgtactca ttatcaatca cgttggatta 420

tgtctttgtc attatatata actctataaa aacctaatat ga 462

<210> 38363
<211> 362
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-E5

<400> 38363

ggtagcgatt cggaattcga gcgacgcgtc acgcgtgaac aggaacttcc tgatggggtt 60

tgaggttatc gaccacatta aggcttctct gtaggctgcc tgcccaggca caggctcctg 120

tccccacatt gctacgcttg cggctcgtga ttccaccgcc ctgtttgagt gaccatactg 180

ggacgtgcca ctcggcccga gagacttgct cggtgcaagc atccagagct ccaacaatga 240

catnagagac tgcaacaaca cactacctac tataatctca aagtttaagc gccacggcct 300

caatgttaga cgatgatgca tccctctcat gtggccacac cattggtatg tctcgttgca 360

ct 362

<210> 38364
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-E6

<400> 38364

gtgcatggga agagggctat cttgctaata ttattcatgg agatggtgca aaggagatga 60

aagttggtga ggtcattgct ataactgtgg aagaagaggg tgacattgag aagtttaagg 120

attataagcc gtcatcttca gctgaacctg tagctcctgc tgaatcaaag gctcaaccag 180

aaccttcaca accaaaggtg gaggaaaaaa agcttaccca ggctcctgag gttaaggccc 240

caaagattga agaagcttct caatctggag atcgcatatt tgccagccct cttgcccgta 300

aactggctga agataacaat gtcccactat caagtgtgaa aggtactggt cctgatgggc 360

gtattttgaa ggcagacatt gaagattact ttggccaagg tgggc 405

<210> 38365
<211> 484
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-E7

<400> 38365

tgatcatcca atatcaagaa atccttgttg ctcctataga atctgatgaa gagcttgcta 60

agaagacaaa aagtttcttt gctaatgcag cagaaacatt caatgctgca tttatgtata 120

tatcatcatt gacgttagca taaaatgcag cattgaatgc taacgtcaat gatgatatat 180

acataaatgt cgatactttg agtgcaatgc tcgaaactca ctgggacagg cctcgtgtct 240

atataggttg catgaaatcg ggcgaggttt tctctgactt aacccacaag tggtacgaat 300

cagactggtg gaaatttggt gatgggaaat cgtactttcg acacacttct ggtgaaatgt 360

ttgtcatatc cagggccata gctcagttca tttctataaa caagtccgct ctccggacat 420

atgcccatga tgatgttagt gttggatcgt ggatgattgg ccctgccgtg aatcatgtaa 480

atga 484

<210> 38366
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-E9

<400> 38366

ccgacgccgt actgctagca caagccttga aatgggcgcg ctctgcctgc tctacccatc 60

cacgccgccg cgctgcccat gcggcgcccg cgcggacgcg accgcggcct tcgcgccttc 120

ccctttcctc tcatcatgtg ctgccaccgg tgcacaaaca aggctgcagc tctgcggcag 180

gagccagagg cgcggcggcg tggcgcgggt aggtggcggc ggcggtgggg gcaaggggga 240

gagtggcaag aacggcgcgg cggcgttctt tgatgaagac ggggtggtgg acgacatgga 300

cgggtacctc aactacctgt ccctcgagta cgactctgtc tgggacacca agcctgcctg 360

gtgtcagcct tggacaatat tgcttacggg aact 394

<210> 38367
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-F1

<400> 38367

agagacaata ccttgcaaca ctggctgttc ctttctcttt ttttttgttt tttcccgttc 60

acaaatatgc ttcttctgta gtcgtaattt tacagttagc tacaataatc taataacata 120

gcaattccag aatttgagcc gaagttgtgg ttgaagcctg tacttatcat tattttccat 180

atatacacaa ctaatacaga atatgacacc acanaaagta ttcttcaaga gaactaaata 240

gatatttgca ctaacacttg ctcttgtctc atcctaaatt tgacattatc tgaaggttat 300

aaaatagtga gctacaactg atacaaccca ctgcaaccga agaagaaatt cagaattcct 360

agccaccaaa ctacgaagac aaaaatgtcg 390

<210> 38368
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-F10

<400> 38368

cccacgcgtc cgcccacgcg ttcgcttttc accacacctc ctcctcctcc tgctcctagc 60

acagctagcg cctgctcccc ttnccctgtg atcatgtctt gcagcagcgg caagtgcgac 120

tgcggctcca gctgctcctg cggcagctca tgcaactgca tgtcccctaa cgtggagacc 180

gccgccgcca gcagcatcaa gaccatggtc ctcgctgcgc cgaccaccaa ggccagcgcc 240

ggcggcttcg aggcggccac cgagggcggc ggctgcgact gcaacacctg caagtgcggc 300

accagctgcg gctgctcctg ctgcagctgc aactgagcgc cggccggccc ggcgatggcg 360

cgcacgagtc 370

<210> 38369
<211> 143
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-F12

<400> 38369

gctatncnta cggaaatttt tctgctctct catactccca ctcgtgcgct cgggagagcg 60

gctcgcataa cggaagaacc caaatccaat acaactgcaa accttctaac attcaaaata 120

caaacacaag gtagtcgact cac 143

<210> 38370
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-F5

<400> 38370

cgcagccgta ttcctgtctc gaatcctctc tcgtcgctcc gatggcccgc acgaagcaga 60

cagcaaggaa gtcgaccggc ggcaaggccc cccggaagca gctggccact aaagctgcgc 120

gcaagtcggc cccggccacc ggcggcgtga agaagcccca ccgcttccgc cccggcaccg 180

tcgcgctccg cgagatccgc aagtaccaga agagcactga gctgctcatc cgcaagctcc 240

ccttccagcg cctcgtccgc gagatcgcgc aggacttcaa gactgatctg aggttccagt 300

cctccgccgt cgcggcgctg caagaggccg ccgaggcgta cctggtgggt ctctt 355

<210> 38371

<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-F6

<400> 38371

ccggaattcc ggtcgcccac gcctccggga atcttcctct gggggaccgg tcttggtttt 60

aaaaacctac catcgccttg gggtggatgg ggaacccccc cctgataatt tccgtgctgg 120

tggcgtgcaa catccttccc atgttcatcc gtggcttcta ttggagggac cccaacaaca 180

gccttctgaa agtcattggt atcggggcgt gaagccatga ccttctacat gttcaggccc 240

aaacttggac atgcacagcg ctctcgcatg tttaagagca ataatctagg tgctcaggcc 300

aagttttgct atgcggttag aggaccatag cgcgctcagg tcatgcgcca tggggctgcc 360

tatattctca gcactgccga gatgcctgtt gccacttgca gatgcatgga 410

<210> 38372
<211> 139
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-F8

<400> 38372

gaccggaacg gaatgcccga cccaacccac ccgtccgccc actctttacg tccacgcatc 60

tatttttac tatatcacta gaacattcta cactgagctc gttgctagct tagtggctcc 120

tcgctgagac tccactatg 139

<210> 38373
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-F9

<400> 38373

ggggaggcgc cagaaagtat ccccggggtt ctgagaacaa cngcccgtgg aggtggcgcg 60

cgcggtggcc cgcccaaatg gagtacatat cccctgaaag aaatctggag gggacttgtg 120

gagatcctgg gccgttattt gccgaccaaa gtggcagctt gttggaccac ttgggttatc 180

aaggggggagg aattccacaa catgagtctc caacactgga tcatggactt ttggttgatc 240

cagctggtgc aattccgtat ttatctacag attctccgcc cttcatgaat gatcaaatca 300

cttgcaatgt tataaaatct gcttcagcta gtccagaatc ttgtacaaaa caacctcaag 360

aacctcttaa tgtagaatct gatgtacaag atgacgcagc tgaacaaaat gttcacaata 420

gtaac 425

<210> 38374
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-G1

<400> 38374

gcggaggaca aacanacagc aagagagcgg atcgccgtaa ggcaaaggca aaggcaacgg 60

caacgcaagc cagaggcaga gcgcgccccg ccacgatgaa gaaggaggag gtggcctcgc 120

cggcggcggc gacggtggtc ctgctgctcc tgtcgtcgtc gttggcggcc gtctccggcc 180

agccacagcc gcagccgcag cccgggggca gcaagcagac tgcggcgaac aacccgcggc 240

tgcagaaggc gtacgtggcg ctgcaggctt tgaagcgcgc ggtgacggag gaccccaaga 300

acctgacgcg gagctggtgc gggccggacg tgtgcggcta cttcggcgtg tactgcgcgg 360

cggcgccgga cgagccgcgg tcgcagacgg tggccggggt ggacctgaac cacggcgacc 420

tggcgggga 429

<210> 38375
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-G11

<400> 38375

gcgcaagtat gcaatgctct aattttagct taattcttgg caatgtgact gcacgaccca 60

ccactggtgg ctgcagtgtc tcatcttgca actatgatgg ctatgtcaat ggaaccattg 120

caacatcgct atcctcaggt cttcaaccca tgtgtccagg accgcatcaa tttcccccac 180

tcacggcggt gccaactgcg gcaaaccatg ggtcttattc tccatcacct gcaccaggac 240

ctggagatgc tggtggtgcc accccaggag gttccagcct ttctccatca aatgagcctg 300

ctgggaacag ctcacaagcg gctgcgataa atcaaccatg ccgtttcctc ctcattttca 360

ttctttctgt gacattgtcc ttgcgggtgt ggattcct 398

<210> 38376
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-D8

<400> 38376

cccacgcgtn cgccgcgctg tggtacttct ccagcgtcgt ctccgtgctc gagccgcgct 60

gcgggctcgc tgccatggcc aaaagcaagc agctgctcca gggccgcacc ggcaccgcag 120

ccacgcttgt cgtctcctac ttcgcggtct gcggcgcgac ctcgttgctg ttccgtgcct 180

ctgtcgttaa gggacgcacc gaggagggga gcttcggcct ggccttgcct ggccggctgc 240

ttgtcggcgc cgtgctggtg tgcgttcttg tctctgtcaa tctgctagga ctgctcgtgc 300

agagtgtctt ctactacgcc tgcaaggcct tccacagcca gcagattgac cgcactgcat 360

tgtatgagca ccttggaggc taccttgggg agtacgtgcc actcaagagc aatatccaga 420

tgga 424

<210> 38377
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-B6

<400> 38377

caagaaccac aagtttctgt tttattctta aacatggcca agaacatgga actgatcgca 60

caatgataca ctagaacaca acaccgtcag gaacgtggaa gtgagcacag acagtggtac 120

agtagtagga agacaagtcg agcacgatgg acagagtagg catcacccaa cagatcgatc 180

gtcatgagct cagaaggatt ttatgagatc aaccaaatcg gttaaatccg tgcggggcga 240

cgcagtttcg tcgacgtcga cgccgatgcc gatgcctttg gccgcagcga tcttgaattc 300

cttcatcctc tccttgatct cctccccttc cttggtgcca aagagcctgt cgat 354

<210> 38378
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-B7

<400> 38378

aagagttaga gaatgaaggg attgtttttg tggaaaaaat tattcagaag cacttttgct 60

cctggtttaa gaagcatgtg agtttcaagt tcatatcctc agcatcaata attgacttat 120

tttcaccatg gatttttta tgtcttcaga ttgcaagttt gcgttttgtc gatggagaag 180

acattgatga tgacctatat gcattggcat gcgaacctga tttgcgagtt cgaatttttt 240

ctgcatgtct tgttgatggt gtccggtacc acaccattga ccgtgagaga aatagaagaa 300

cccaaaatag tggagtcatg gttgagggca ctcataataa tgaatgcatt gatttttatg 360

gctgcttaaa agaaattatc gagttgcagt ataactcana tttgatggag ca 412

<210> 38379
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-B8

<400> 38379

cccaaaaggc aaaccaacca ccagtcttac caccctccgc ctccgcctgc gccacagctg 60

ccgattcgaa agccctcgtc ctgacccctc gcaaaaccct agctccaacc accatgaagg 120

gcaaggccaa cgcctccaag aaggatgagg gcaggctccg ggccggcggc ggcggcgccg 180

gaaagcgcaa gaaggccgcc gcgagcggca agcccaagcg ccctccctcc gccttcttcg 240

tcttcatgtc tgaattcagg caggagtacc aggcgcagca ccctagcaac aagagcgttg 300

cggccgtgag caaggcagca ggggaaaagt ggcgctctat gtcagagcaa gagaagcaac 360

cctatgtgga ccaagctggg cagaagaagc aggactatga gaagact 407

<210> 38380

<211> 242
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-B9

<400> 38380

atcctcactc gctgggaggc ctgcacgaag cagacggcga ggaagtccac cggcggcaag 60

gcgccgagga agcagttggc gactaaagcg gcccgcaagt ctgcccctgc gaccggcgga 120

gttaagaagc cccaccgctt ccgccccggt accgtcgcgc tccgggagat ccgcaagtac 180

cagaagagca cggagctgct gatccgcaag ctgncgttcc agcgcctggt gcgggagatc 240

gc 242

<210> 38381
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-C11

<400> 38381

aaagcagcat atgccgagga atctcatttc aatacggaac gaggtacacc cgcgtctcga 60

acatgcaaat tgtgcagctg gtctttttga tgtcaagaaa atccctctac aaatggaact 120

cattacgagc acggatgtgg tcatgaatct cttgaagaaa atggctcccc ctcttgttac 180

tctttttgca gcaaatcctg aaattcacca tgtaatcttg aggaacatta atctgatagt 240

tcaaaagagg gctaccatac tccctcatga gattaatgat ttcttttgga agtacaatga 300

ccctatatat gttcagatgg aaaagctgga gactatgatg cagcttggct cagatcgaaa 360

tatacatcat gtgctcttgg aattc 385

<210> 38382
<211> 279
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-C2

<400> 38382

cgttgcaaga agatcttggg accccggcat tgttctgcta acggccgaag tgatgccttg 60

gaggtgaggc actattctcc tctattgtaa ttccctaacc ttggacgcaa cctgatcccc 120

aagaaagacc gtgcagcgcg ggctgctcgt tgatcatgcc agcggggaac agcaagcaga 180

caaagcagca cgcaccacgg gccttcgctg gtctgcctgc ctgtgcaggc gtcgngtaaa 240

tgtattgtat ttgcagggat cctgtttaca gcgctagta 279

<210> 38383
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-C3

<400> 38383

cccttcttgt ttttaatcct tatcccttga ccttttaaga atgggttggc ggcggcgact 60

tccggcgcaa gcgcaacccc aaccggcggg gggttcggac cgccgccggc cgggccaggg 120

ggggggaacg ccttcgtgca ttaatactac aacattctgc accaatcggc ggagctcgtc 180

taccgcttct accaagagtc cagccgcctt tggcgtccct ccggcaccgg cgacgacggc 240

atggagacgg tcacctccat tgacgcgatt aacgacaaga tcgtgtccat gggcatcgac 300

cgggcggaga tc 312

<210> 38384
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-C4

<400> 38384

tttttgggca ttattaaacc ttcgcacact tctatgcata aagtgctccg gggtgcaccc 60

aagatctggg aaagcatatt atcaaaagct tgatctatca cactggatgt cagagtttgg 120

cagccatatc taatcaatca ttctcagtca ttacgcaaca tgtttgacaa cactatttag 180

gaagacatgt tgacagataa tcatataagc gctaatggat catacacatc acacttcctc 240

tctgctagca cgcctaaaca cacagatgca 270

<210> 38385

<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-C5

<400> 38385

cgtcggccac gcgttcggcc aagcctgcca atttttgtt atattggcct aacccttga 60

cttgacctat tgaacaaaac aaggctcagc tcgttgtcat cgctcatgat gtggatccga 120

ttgaactggt tgtttggctt ccagccctgt gcaagaagat ggaggtccca tactgcattg 180

ttaaaggaaa ggctcgcctt ggatcgatcg ttcacaagaa gactgcatca gtcttgtgtc 240

tgaccactgt caagaacgag gacaagcttg agttcagcaa gatcttggag gctattaagt 300

ttgatgaagt caagaagaag tggggaggtg gcatcatggg ctccaagtcg catgccaaga 360

ccaaggccag ggaaaag 377

<210> 38386
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-C6

<400> 38386

ggcacctggc acaactattc caagtaaagg gcgtcattgc tgctccctat tttggtccat 60

atagtgctgc tacatcattc aaacgcctat ttaaacaatc ttttcctcta ctgtacaagt 120

actttcaaga agctcctgca aatacggtct gctggactga cattatccat tggatgtggg 180

cactcttcat ggaaagttgg ggatcatgga gaaatgagtg tctgaatctt agccccattc 240

ctttcacaga tccagtaacc aatcttcctt tgtggcatgt gcgagaggag tcacctttat 300

tact 304

<210> 38387
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-C7

<400> 38387

cggacgcgtg ggcgcgagaa cgagatgtct agaccgcatn cagtggtggn gctcggtatg 60

ggcggaagcg aatgcgccct gngcgacgcc gctataggcg aggaaaccct aaattacgac 120

ggcgatgacg ttgagatggc cgacgccgac tcggatacgg aggaagcccg agcagctgag 180

gtctccgctg caactggagg atccgccgga ggtgttaggc aggcggagaa ggacggaccg 240

gatggaaaga agaagaggaa gaagaggagg aacaaaggga agaagaacaa agggaggcaa 300

gatggggcgc ccaccaacat cgcggacatt aatcgatttg ttcttaacac ttgcaagcgc 360

ttgaaggaga agaagtcgta ccttgtctgg aatgctgttg gctgccttgg tgtcactgct 420

gtcaatgat 429

<210> 38388
<211> 237
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-C8

<400> 38388

gcgcccacgc gtncgnatac ctcatgtcat tataaaatag taagtatatg cctagagagc 60

ggagcgagga gcgagcgagc tcactccgtg ttcaatcgag agagctcgtt tagcttggcc 120

aacgacgagc agagcagtag ctatgataga tccatggcga acgcgggcat gaagccggtg 180

gccggactcc tgctggtgct caacttgtgc atgtacgtca tcctggcggc ggtgggc 237

<210> 38389
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-C9

<400> 38389

cgtctcgctc gtggctgtcc tgctcatact gcttgccctc gccgtatcgt ccacccgcaa 60

cgcacaggag gattccatgg ccgacaacac cgggacgttg gcgggcggca tcaaggacgt 120

gccggggaac gagaacgacc ttcacctcca ggagctcgcc cgattcgccg tcgatgagca 180

caacaagaag gccaatgctc ttctggggtt cgagaagctt gtgaaggcca agacacaagt 240

ggttgctggc acgatgtact atctcactat tgaagtgaag gatggcgaag tcaagaagct 300

ctacgaagct aaggtctggg agaagccatg ggagaacttc aaggagctgc aggaattcaa 360

gcctgttgaa gagggtgcta gcgcctaaag atctctcctt ctccatgtgc gagcctgaag 420

ctcaaagcaa aagtgcagaa taagaatcat gctcccctt 458

<210> 38390
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-D12

<400> 38390

caactgccag attggagcat tcttctttcg gctggcacta ccatcttcct ggcagcagag 60

aatcagggga cacttgttga ctggaagccc aagaaacccg acatgcttgt tgatacattt 120

ggttttggcg ggatcatcca ggatgggatg gtgtttatgc aaaacttcat tattcggtcc 180

tatgagattg gtgccgatcg tactgcttct atagagacat taatgaatca cttacaggaa 240

acagctctta accatgtgaa gacagctggc ctttttggag atggttttgg cgccacgcca 300

gatatgagca aacgaaactt gatctgggtt gtcagcaaaa ttcaacttct tgttgagaag 360

tacctcttgt gggaagacac ggttcaagtg gaca 394

<210> 38391
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-D2

<400> 38391

gcaattgatg ctcctggagg gtttctcttt gagtgggggt ctgtcttttg ggatatattc 60

atcgcaagga caaatgaaaa gcattctgaa gttgcagcgg catatctaga ggcacagcaa 120

ataaaagcaa gagagcacca gcagcagatg cagatgcagc aattgcaact tatgcatcaa 180

agacatgctc aacttcagcg aactaacgcg aatcatcctt cacttaatgg tccaataaat 240

gctttaaatt ctgagggcat tttggggcca tcaacagcta gtgtcttagc tgccaagatg 300

tatgaagagc gattgaagca cccacattca atggagtctg agggatcaca 350

<210> 38392
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-D4

<400> 38392

ccggggttcc cccggggcaa aggcccgccc cccacagggt cgggcccttg ttgttttgag 60

acatggccca cataaccggg ttcgtcgccg cccaggaagc tgcaaatcct tttgaatatt 120

gtgatgtggt taccacaacc acgcacaagt ccctcagagg gccaagggct ggcatgatct 180

tctacaggaa aggccctaag ccccccaaga agggccagcc agagggtgct gtttatgatt 240

atgaagacaa gatcaactt 259

<210> 38393
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-B3

<400> 38393

aaaattggaa aagttgattc tgggggtgac ccgagtcggg aaaggagaag agaaaggggg 60

agatctagag ggcgggaacg tgatgctagg ggtagggatt ctggatcatg atagcagggg 120

tcgtgactct gatcgcgaga gggatcggag acgtcgctct agggatagaa gttcaggaca 180

ctcatacaag gagaaatcaa ggcgccatcc atcacacgac cgagttgact actacagttc 240

gcattcatct cgtgaaaaag atcggcatag acaccattga tcccgggtct gcagggcttt 300

gctgcatgga gaccaccaca tggcattgcc gacaagatca tgaaaacttg 350

<210> 38394
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-D6

<400> 38394

ctttggaata tcttttcttg ttgcctacaa gttgtgtttc tttttgctta ctatgtggac 60

tctgttagca ggagtcttca tttgcgccag cacctgctga acctacactg gatcatttaa 120

gatccttggc gaggaagctg cttgctggtt atattgacat acccacaatc acaaacctga 180

gatggtccct gggatactat taaaagatgg aaactattga c 221

<210> 38395
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-D7

<400> 38395

cttggtctga tcccatctta attttttta gaggtcctga accaatggaa ggacaaatca 60

ttaaagcgag cagggctgac tgaagaacaa ttgcaagagc agattgagca gagaaatgtc 120

gcaaggaaga ataagcagtt tgagatatct gatggaatca ggaaaaacct tgctaccaaa 180

ggcatcgccc tgatggacga gccttctggt acagtatgga gaccatgcga accagagcgg 240

tctgaagagt catgattagc tcactgactc aacaagtgat ggtggtgtaa aatgagattt 300

ttgcctgagg gcagttatca cattttgaag actaacaaaa atcgccatct ctggatgtgg 360

tattctacag ggtaggggtt ccaggttgac tcaccagtta aaacatgcat ttctggttgt 420

ataacaagca atgaaccccg tatatatac 449

<210> 38396
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H3

<400> 38396

gcgacacacg ctgacagctc acggctgacc ttcccgacgg cctccagctc catcttgatt 60

gttgaggcga agccccggtg cgtaagagtc tgccatggcc agcgagaata aggtctttgg 120

gttcgaggaa gtcgccaagc acaacgtcac caaggactgc tggatcatca tcgccggcaa 180

ggtgtatgac gtcactccgt ttatggatga gcatcctggt ggagacgagg ttttgctagc 240

tgtaaccggg aaagatgcta cagctgattt cgaagatatt ggccacagtg attccgcaag 300

ggacatgatg gagaagtacc acatcgggca gatagatgct ttaacaatcc cagcaaagcg 360

tgctcatgtg cagccccagc aagcaccc 388

<210> 38397
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H5

<400> 38397

gagcactgaa gcagagcgag cgagctgtcc tgccaaaccc tcacggccgc ctccacaatg 60

ccgcgccatc tcgcgctgct cctgcccctg ctactgctgg cctcgccggc ggccacgcgc 120

ctggcgtccg ccgcctgcgc gggcgagaag ttcccggcgg ggcgtgcgta cgcgtcgtgc 180

gaggacctgc cgaagctggg cgcgtcgctg cactggacgt acgacgcgtc caagagctcc 240

ctgtcggtgg cgttcgtggc ggcgcccgcg gcggcgggcg gatgggtggc gtggggcctg 300

aacccgacgg gcgagggcat ggccggcgcg caggcgctgg tggcgctggc gggggccggg 360

gccgcggcgc ccgccgtgcg gacgtacaac atcacggggt a 401

<210> 38398
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-H6

<400> 38398

caccttgag gtcgagtctt ctgataccat tgataatgtc aaggccaaga tccaggacaa 60

ggagggcatc cctccggacc agcagcggct cattttgcc ggcaagcagc tcgaggacgg 120

gcgcacgctg gccgactaca acattcagaa ggagagcacc ctccacttgg tgctgcgtct 180

caggggtggc atgcagatct tcgtgaagac acttactggc aagacgatca cccttgaggt 240

ggagtcctca gacaccattg acaacgtcaa ggccaagatc caggacaagg agggcattcc 300

accggaccag cagcggctga tcttcgccgg caagcagctg gaggatggtc gcaccttggc 360

tgactacaac atccagaagg agagcaccct ncacctgggt gctcgnnctc agggtggtat 420

gcagattttt gtga 434

<210> 38399
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H7

<400> 38399

cggacgcgtg ggcaagatgt cttgaggtta atgcaccata cctatcgaaa ccagggattt 60

cagttgtatg ttagcttctt tgagatatat ggtggcaaat tatttgacct tctcaacgat 120

aggagcaaac tttgcatgag agaggatgga aagcaaaagg tttgtattgt tggtttgcaa 180

gagtatagag tgtccgatgt agagactatc aaggagttga ttgaaaaagg cagtgctacc 240

agaagtactg gcacaaccgg tgcaaatgaa gagtcctcaa ggtctcatgc cattcttcag 300

cttgccatta aacgccgtgt ggatggcaat gactccaaac cacccagacc agtcggcaag 360

ttgtcattta ttgaccttgc tggcagcgag cgtggtgctg atacaactga caatgataaa 420

caaacaagaa tcgagggtgc 440

<210> 38400
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H8

<400> 38400

gcggtggggc acgaacgagg cgctcatcat catcatcctc ggccaccgcg acgccgcgca 60

gcgccgcgcc atccgtcgcg cttacgccga ggcctacggc gaggagctcc tccgctccat 120

cacggacgag atctccggcg acttcgagag ggccgtgatc ctgtggacgc tggacccagc 180

ggagcgcgac gcggtgctgg ccaacgaggc ggcacggaag tggaagccca ggaaccgtgt 240

gctcgacgag atcgcctgca cgcgcacctt caagcagatc atcgcgacca ggcaggcctt 300

atacgagcgg 310

<210> 38401
<211> 290
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-023-Q1-K1-A10

<400> 38401

cccacgcgtn cgggaggcat ttacaagttt gtgatcgaaa ggttcgagaa ggaggctgct 60

gaaatgaaca agcggtcctt caagtacgcg tgggtgctcg acaagctcaa ggctgagcgt 120

gagaaaggta tcaccattga tatcgctctg tggaagtttg agaccaccaa gtactactgc 180

acggtcattg atgcccctgg acaccgtgac ttcatcaaga acatgatcac tggtacctcc 240

caagctgact gtgctgtcct tatcattgac tccaccactg gtggttttga 290

<210> 38402
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A11

<400> 38402

ggcccttgag ctcccctccc ttatgacttc cccatggtgc ctctcggcac cgcccgcggc 60

cctaggcttc tgcgcgtctg cctccaccct cgcgcgtgtg ccggttcccg gaagtaggcg 120

gcgcaagtgg aacgcgctcg tggtctgcgc gggccccgat gaggagaaga ttacgaagcg 180

gtcgcccctg gatttcccca tcgaatggga gagaccaaaa cctgggagga gacctgatat 240

cttccctaag ttcagcccaa tgaagacacc attaccgcat ccattggcag ctgatgatcc 300

tctggatgat gatg 314

<210> 38403
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A12

<400> 38403

tccacttgtc ctccgcccca tattcgggct attctaactc acgatgttct ccggcaccag 60

gacctcccgc ggggccaccc actctacgtc caccggtggt gggggtggct cgccttccaa 120

caggggcggg cccgcgccct cggccttcga gtaggtctcc acgccagcca gcgagagcac 180

cgtcgcccgc cggctaaacc gacttgaccc ccacggcgac gacgctccat cgtcgcaacc 240

agccacgagc aagaagaaaa agagaggggc acgggcagtt ggtcctgaca aaaatggccg 300

tggattgcgt caatttaaca tgagagtatg tgag 334

<210> 38404
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A2

<400> 38404

ggcccttatt ttttttaata taaaaaataa aatgggataa gacatctaaa aataagttgg 60

tgggtgggtg ctcaactcag ctcaccctat ctttctctta tcttacgccg tcgtcgtcct 120

gctccggcga cggccaggca gccgagcaga taaaaagagc cgaagcagca ccaccaccac 180

gtgcctctct tctcagcttg cctgcctcac tgcacccggc cacaagggca agatgcccgc 240

ctctgtcgct gtctacccgg ccaagatggc atgctgtc 278

<210> 38405
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A5

<400> 38405

cggacgcgtg ggctcatgtt attgaatata gaaatttcag gtctattggt tttacacaga 60

tttggttgtg atgcttcaaa ccgcttatga tttttgttaa aaaagttgtg ccatgagcat 120

atcacataat atatgagaat cttaggaata aaccaaggtg cttatgagtg aaattttggc 180

tttgcttttt taaaaatatt ggttcaagtt ggttctgaca gatgccactg cacaaatgga 240

cgttgacacg ttgtagtgat cacac 265

<210> 38406
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A6

<400> 38406

aggaatcaaa taatttggga acttcctttt taacactcct tgtctgagac aaaaacactg 60

cgagaacttt taggccatac accaacccat gtggttgctg gtgcattgct tgggtgtaca 120

ataaccacag caggacaatt attcctttga actacgaagg tgcggcagaa atgttgtagc 180

atttgtatcg cagggacttg agaagaagtt tctccagtgt tctgctactt taggtattgg 240

taagatttgc aagttggtgc tgtagtgttg gtgaatgttg tatgttctga tggaatgtgg 300

ttatatgtca aaaaagtgac gttcacagga ttgctgtaca gaacatttgt catgggtatg 360

attgatgaaa tctaacatgt ga 382

<210> 38407
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A7

<400> 38407

gcggatcgtg gaaagcaaag cctagaaaca atatgtcttc ttttggctta caaggtcaag 60

tacccggaga acttctttct tctaaggggc aaccatgaat gcgcatcagt aaatcgcatc 120

tatggttttt atgacgagtg caaacgcaga ttcagtgtaa agctgtggaa aacattcaca 180

gactgtttta actgcttgcc agtgtcagca ttgatagatg aaaagattct ctgtatgcat 240

ggtggtctat ctccggagtt gaacaagctt gagcaaatac tcaacctgaa tcgccccaca 300

gacgtgcctg atactggatt gctctgtgat cttctttggt ctgatccttc caatgaagca 360

acaggctggg ccatcaatga tcgtggtgtt tcattcacat ttggtcctga taaaggttct 420

gaatttcttg agaggcatga 440

<210> 38408
<211> 106
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-A8

<400> 38408

agacgtttta tcatcatgtt ttgttgcttt tggttcttga acagcgtttg cagctagctg 60

taatgcttta attcgacttt ctatatattg ntgaaccgtg ttgtcg 106

<210> 38409
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A9

<400> 38409

gggcaggcag aaccgctcgc caacaattgt catcgtttgg tccatccggc ttgcgtgtat 60

cttctccttg ctgtgggtga agatcgatcc tttcatctcc ccgacacaga aagctgccgc 120

cttggggcaa tgtggtgtga actgctgatc cagattggga cctcttatct gaagaggctc 180

atccaaagat ctgccccctc gtgtaaatac ctgagggggc tagatgggaa ttttttgttg 240

aaaatgagga tggacctcca tcca 264

<210> 38410
<211> 307
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-B10

<400> 38410

aaaccctcac ngggcggggc acaaggacat tccatatggc gctgctcctg cccctgctac 60

tgctggcctc gccggcggcc acgcgcctgg cgtccgccgc ctgcgcgggc gagaagttcc 120

cggcggggcg tgcgtacgcg tcgtgcgagg acctgccgaa gctgggcgcg tcgctgcact 180

ggacgtacga cgcgtccaag agctccctgt cggtggcgtt cgtggcggcg cccgccgcgg 240

cnggcggatg ggtggcgtgg ggcctgaacc cgaacggcga aggcatggtc ggcgcgcaag 300

cgcttgt 307

<210> 38411
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-B11

<400> 38411

gcggacgagg tacctgataa aaatgtagat aattagattg agaaaggttg cgagcagtgt 60

tggtgttggc gacaaacatg atgctgagtg ggtacactct attctggcag acgctggtgc 120

agctaatgat aattcttgga tcctacttcc ataccttttgt gctgcattca tggtgtccaa 180

catttggaac ggtgctgttt atgatgtcaa tataggtgga ctcagtaaca atttgcactg 240

cctagcaagg tgtgtaagtg ctgtgattgg gggaagcgaa tacactcggg tcgaaaggga 300

gcagcgaata aattctcttt caaatgtgca tacagatgag ctgcaagagg ccgagttacc 360

gagccgtgtc tcagcagaag caaatatcaa atcttgtatg cagatctacg tcaa 414

<210> 38412
<211> 137
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-B12

<400> 38412

gccgatcatc caaagacacg ttggcgttaa taacgattag aatgaacaaa gggctcggaa 60

aaagttccat ttgatcgctc ccctccgggg aaaattgagt ggaggattcc aaaaaaaccc 120

ccaaaacgag gcccatt 137

<210> 38413
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-B2

<400> 38413

tgggcgtggg ttgcgtgccc tctccaggcc cagattgact ctgttctgga tcttgcacgg 60

tgcacaattg tgtccgagct ctccaacaag gatttcgact catatgtcct ttctgagtca 120

agcttgctta tctatcctct gaagattgtc atcaagacct gtggcactac caagctcctg 180

ctcaccattc caagaatcct tgagcttgct gaagagctgt ctatgccact tgctgctgtg 240

aagtactccc gtgggacgtt catctttcct ggcgcac 277

<210> 38414
<211> 323
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H2

<400> 38414

gtttgtcatg gcgcgatcca ataccaacgt ttcatttaag tcggccccaa caaatgcttc 60

gagcaggtct attcctaatg tgccgcgcgt catcaaaaag cctaccggtt ctactattgc 120

ctatcatctt tacaaaaaag ccaccaactt cagcgagaag aatatcctga cctattacct 180

tacacgtggt accctctatg tgaccctatt tacaactgac gaacgtttct ctcaagttaa 240

tgcctcagct cgcgactccc atctttgtac ctatgactta cacaacacga tgacctacca 300

ctttatccaa gactcccaga caa 323

<210> 38415
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G1

<400> 38415

gcagacatga tgagtcatca tccactgggg aaaaacaagc aagcaaatgg tggtgggttt 60

ttggatgggg ccctcgcttt gatagaacat agcaattgta gcgtcaaaaa taaacaagag 120

ttgggtagtt taggtaccgt gtttgcgttc attaaagtga agtattctgt atcaccacag 180

gtaaccttga ttgtggtgac tagtttttt ttgtttgcct caccgtgttc cagtcccct 239

<210> 38416
<211> 154
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G10

<400> 38416

cccacgcgtc cgcgcttttg tatttgtcgg acccgtaact accagggctc tgctattagc 60

ggcacggagc ctgtaattgt attgtatgat aatgtgatcg agggtgctac ttcccctcgg 120

cattcctagt gttggttaaa agtcgttcga cagc 154

<210> 38417

<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G11

<400> 38417

ctccacttcg aacgccaagt ggagagccgt cgccagtccg gcacacctcc gcgagaagtg 60

gatgcacggc tgcgcgtcgc tcgacgggaa ggtcgttgtg gtggcggacc gtggcggctt 120

gtcctacgat ccttcggcgc cacctgcgga ggcgtgggca ccggtgtcgc cggtgcttga 180

catgggatgg aagggccgag ctgcagtggt tgagggaatc ctctactctt acgattacct 240

gggacaggtc aaggggtatg atccggacac tgattcttgg agcacagtgg aggggttgga 300

gagggagcta cccaagttct tgtgcggcgc cacgcttgcc gatgttggag gattgctcta 360

cttggtttgg gaaggaaagt ggaaagggaa attgaaaggt aagatggaag tg 412

<210> 38418
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G12

<400> 38418

aaagcccacg cgtccgggga gacaagactt gtatttggat tccaaaggct attgtaacta 60

accttgtagg acccaacaag agttgggtac ctaaaaccca agcgtaaatt gtcttgcagg 120

tttatgcatc tgggggctca agctggatta tcgacagcgg atgcacaaac cacatgacgg 180

aggagaagaa gatgttcacc tcctacgtca agaacaagga ttcccaggat acgatcatct 240

ttggagatgg gaaccaaggc aaggtcaaag gcttgggcaa gatagccatc accaacgagc 300

actccatttc aaacgtattt ctagtagagt cgcttggtta caaccttctt tctgtaagtc 360

aattgtgcca catgggctac aattgtttgg ttacaaatgt tgatgtttct gtctttaaga 420

gtgatggttc attagcattt aagggtgtat t 451

<210> 38419
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G2

<400> 38419

cccacgcgtc cgctttgcta caatgatata taatttattt gtaaatatat ggcaccaaga 60

tttgtgtatt ctttgcattt cctttattaa tatatctgaa ttatgaagca taactattac 120

ccaactggtt atagaagtaa gttgtgtttt ctctagtttt aatgttatca taaataagtt 180

taaacatgtt tgaacaataa cttatttgaa caccgtagca atgtgtgagc actcttcaaa 240

tgtttggtat aaaaatactt gtaaatagat ttgttagttc ttactgcgaa ccaaggatgg 300

tttcgattct gtggcgctga cggtgtttca cgcgacctgt agcaggtccg acaactgcct 360

agaggcacac actagagcag acagaaagga tctctgtata ctctctgtga tcttggaatc 420

agatcgttt 429

<210> 38420
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G3

<400> 38420

cccacgcgtc cgcacaaatc cttggtgcgg tcgataagta catatgccag ttctctgagg 60

aatcaaacaa tttttgggga agtaggcatg aactaatgct gggaaacact ttcatttcca 120

ataaagagtc aaccccaccg caaggggagg tgccccctca ggatttctct aggcgtgttt 180

tggaagggtt ccaagtcacc ccaatatggc atcaaggttt catacgtgat gatggaaggt 240

caaactacgt gccaaatgtc caaacagctc gctgggagta cagcactcgt ccagtttatg 300

ggtggggtga tgtcaaatct aagcagttgt ccacagctgg ttggcttgca gcttttcctt 360

tctttgaacc tca 373

<210> 38421
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G4

<400> 38421

caaggtcgtc gatgttcaga tcatgctgga gaggctcaca aaccgccaca ggggctttgg 60

cttcgtgaca ttcgaagatc gaagggcagt tgacagcgct atcaaagaga tgcgtggcca 120

agagttagat ggtcgtacca tctcagtgaa caaggctgag cctaagatga atacagatga 180

cacaaggttc gacaatggcg gtggacgaga ctatcgaggt ggtagaggtg atggtccacc 240

ccctggcaat tgctatgagt gtggccgtcc tggtcattgg gtccgtgact gcccgagtgc 300

tgttggtggt cgttctggca gattcccgtc caagttcagt gatggtggca ggggagaccg 360

cttttctgga tcagataggt ttagtgatcg ttacatggat gatcgttatg atggtgggtc 420

gtatgggtac c 431

<210> 38422
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G5

<400> 38422

cccacgcgtc cgcccacgcg tccgtccacg tgtccgaaaa aaaaaaaaaa aaaaaaaaag 60

gggaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaggaaa gaaaatataa aagaaaaaaa gcattaagat tgctacagtg aaacaaaaat 180

ggtttagttt agcaacacaa aaatacaata tacatggggg tggattaaca acgtattaaa 240

gggggaaaac aattgagata catgaactta gattggatgg aagcacattt cattttggtc 300

aattggtgat aattggtaaa aggagcagaa ggatggcatt atgaaaa 347

<210> 38423
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G6

<400> 38423

cccacgcgtc cgccaaaagc agcttctttc tcgggggtcc ggccacttcc aggagttctt 60

gcctgcgaag cttgctccgt tctttcgcct gcttgccctc actcctctat cgccttggcc 120

tgcttattgc ccagacagtt tctgcttgac cccacgattc ttcactgatg attcacagaa 180

agcttggcga gcacgtacat aacttgccga tcggacagtt gatggacggc acgagcccaa 240

accgtacaag tccacaataa tttctccctc cggctccggc tccgcctaga ctcactcgtc 300

catgtcgcgc gccggccgct ccctgccccc gcccgtggcg gcgctcctgc tcgcggtggt 360

ggcgctgtgc gcggcgcggc gcgcgcgcgc gatcggcgtg aactggggca cgcagctgag 420

ccacccgc 428

<210> 38424
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G7

<400> 38424

cccacgcgtc cggggcgact cagtcaacat gaaccaatgg gtctctctcg tgtgcatggt 60

ggaggcctca atacctgacg acaggctcaa gatacgcacc ttcaatggct cactcatctc 120

cttcaaggca ttggaataca acgcaacgat agatttctac tggtcaccac tactggtgga 180

gtctaacagc gacaacccca ttatccaccg ggtggagtac cggatcataa gggcagacag 240

aattgagaag catgccagtg tctggaggga tgccgacatc attgtcttca attcttacct 300

gtggtggagg aagcagaagg atgacatgag gatgaaggtc atgtatggtt cgttcgaaga 360

tggtgatgca aagttagacg agatggaaaa tggtccatgg tttcgag 407

<210> 38425
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G9

<400> 38425

accgtacata ggcagggacg aagcgttggt tggagccaat ggagtcggtg ggtcggagtc 60

cgagcggaag ccgctgtcag aggtggtcgg cgactgcgtc cagcgctggt tccaggacgc 120

gtacaaggag gcgcgcaaag gagacatcgc caaccaggtg cttgtagcgc agatgttctt 180

ctcgggttat gggacccccа agaacgagta caagggaaaa caatggatgg atagagcatc 240

aaggttcagg tcttccgctt tgaaggttgg catgaaacgt ccaggataca atgcaagtga 300

ctcagactct gatgacgatg caaatgatga cgccaaccaa taacactcaa ttacaaattg 360

agttattagt taggagattc acaagga 387

<210> 38426
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H1

<400> 38426

cccacgcgtc cgcagctaat aaggtaaggt gcgactaaaa tggctccaac gaccgccacc 60

aaggacgaca gtggctacgg cgacgagcgc cggcgcgagc tgcaggcgtt cgacgacacg 120

aagctggggg tgaaaggcct ggtggactcc ggcgtcaagt ccatcccgtc catcttccac 180

cacccgccgg aagccctgag cgacataatt tctccggcgc cgcctctgcc gccgtcgtcg 240

ccctccggcg ccgccatccc ggtggtggac ctctcggtga cgcggcgcga ggacctagtc 300

gagcaggtga ggcacgcggc cgggacggtg ggcttcttct ggctggtgaa ccacggcgtg 360

gcggaggagc tgatgggcgg catgctccgc ggggtgc 397

<210> 38427
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H10

<400> 38427

cggacgccca cgcgtccgct tccctttgaa gatgtacaat gagttgagga gagtggaaca 60

tgttgaccat tctagaaagt ctgcagagca ggctgtaaag gcgatcaagg gcaaagagtc 120

cggtgaacca gttccggagt atgactacct gccatacttc tactcccgat cattcgacct 180

ggcgtggcaa ttctacggcg acaacgtggg cgaaaccatc ctgtttggcg acagtgaccc 240

cacctccagc aagcccaagt tcggctcgta ctggatcaag gacggcaagg tcttgggcgc 300

cttcctggag ggcgggtcac cggacgagaa caaggccatt gccaaggtgg cgaaaaccca 360

gccgtcggtc gctaacctcg aggagctcaa gaaggatggc ctccagttcg ccagcaagat 420

ctgagacgct cccgttccat gta 443

<210> 38428
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H11

<400> 38428

cctaaatcca tccccttgcc aagctctctc tttgctgcgg gaggtcgagg ccggggaggg 60

cttgttagaa aggatgcaga gcacgctgca aacccgatca aggtcataac tgtacgctga 120

accagttgcc caatatcact acctaccata cttctacttg caatcactag acctgccttg 180

gcaattccac gatgacaatg tagtcgaaac catcctgctt ggagacagtg accccaccta 240

catcatgccc aacttcggct cgtactggat caacgactgc caggtcttgt gcgccttcct 300

ggaggacggt ccac 314

<210> 38429
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-H12

<400> 38429

ctcgggagtt gagaggcatg tgaccctctt cactcgcttg accctcctct tcactcgctg 60

gtcccagaag tcacgcacca aacaccacca ccaaagaagg cgagaacgta ctccgtccct 120

cccctccccc cccctccccc tcccctcgag gctccaggac cgtctcctcg cctgctcatc 180

cgccgctgct ccccttctct gggctcggag aaccggagag aagcgcgcgc ggccatggcg 240

tccagcgcct ctcggttcat caagtgcgtc acggtcggcg acggtgccgt gggcaagaca 300

tgtatgctca tctgctacac cagcaacaag ttccccactg actacatacc tacggtgttc 360

gacaatttca gtgcaaatgt agttgtggat ggcaccactg tgaatttggg cctttgggat 420

accgctgggc angaagatta caacc 445

<210> 38430
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F9

<400> 38430

ggtgggttgg cttctcctcc ccctccggtt cgggttcggg ttcgtgaggt tctccggggt 60

tcggtttcgt gggtgagcgg atcgagatgg cggcgtcgga tgttgagtac cgctgcttcg 120

tcggcggcct cgcctgggcc acggacgacc actccctcca caacgccttc agcacctacg 180

gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg 240

gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300

aggagctgga cggccgcaac atcaccgtca acgaggccca gtcccgcggc ggccgtggag 360

gcggcggccg cggcgggtac ggtggtggcc cgtgaggcgg cg 402

<210> 38431
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E6

<400> 38431

cccacgcgtc cggtcgaggc cgaggccgta tctgaggctg agccgaccga ggcagagccg 60

aaggaagcag agcccgaggc cgccgcgccg gcagcagaga cggaggctgc tgctgccccg 120

gtcgaggctg ctgagccgga gatagccgcc gagaccaagg aggcggcggc tgtggaggct 180

aacgaggagg agggggaggc atcgcctgcg gttgctgcca ctcctgaggt cgcagcgacc 240

gaggaggaag cggcggtccc tgctcccgag gccgccgtcg ctgccgtcga gaagtccgtc 300

gagtgagtcc agcgccggac ggcggccgat ctagctcgct gcgtcagcct gtcacctggc 360

gtgcgccgct ctggtgccac tgccacggca acagcacggc atggcgccgg cataggtcgc 420

taggaaaa 428

<210> 38432
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E7

<400> 38432

cccacgcgtc cgcccacgcg tccgcaaata tatggccctt tgcttcgaat atatgcataa 60

tggaagcctt gacaagttca ttattggtat tattgcgctc ttcttattct cgtatgatca 120

attgaattca cttgaagtaa ccattcttca aattcacatt ttgagagact gtttgctcca 180

acagatgaaa atagtgtcca tgactggtcc acacgctatg cgataatcaa ggggatctgt 240

gagggtttga aataccttca cgaggaattg aatcctccta tttatcattt ggatttaaaa 300

ccagctaata ttttgttgga tgacaatatg atgccaaagc ttgcagattt tggcttgtca 360

aagatttttg acaggaacga acacgaatca cacaaagttg tgt 403

<210> 38433
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E8

<400> 38433

cccacgcgtc cgaaattgac aggaatatta cttggtgatc ctataagata atgtgctgtg 60

aaccctgatt tgttttagct gcttgtgttc gttttgtcta cttagtcttg cacactgagg 120

acctttatcg aggttgtcag tctgcaagtt gaatcatggc ggagcacttg gcttcgatct 180

ttggtaccga gaaggacagg gtcaactgcc ctttttactt caagattggg gcttgtcgtc 240

atggggatcg ctgttctcgt ctgcacaaca ggccaactat atcgccaact cttgtgcttg 300

ctaacatgta tcagcgccct gatatgataa ctcctggagt tgatgctcaa ggccaaccta 360

ttgatcctga gaagatgcaa gagcattttg aggacttcta tgaggacatc tatgaggagt 420

tgggcaagtt tggtga 436

<210> 38434
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F1

<400> 38434

cccacgcgtc cgagcagcca gcctctttca ctggttctga ggttcgaatc attgatgatg 60

acatgcccct cgctcaattt gctgttgctt tcaatggagc atcatgggtg gatcctgatt 120

ctgttgcact gatggttatg caaacaatgc ttggttcatg gaacaagagt gctggtggag 180

gaaagcacat gggttcagag cttgtgcaga gggcagcaat caatgacatc gctgagagtg 240

taatgggatt caatacgaat tacaaggaca ctggtctttt tggtgtctat gctgttgcta 300

aggctgattg cttggatgat ttggcttttg caattatgca tgagatgagc caa 353

<210> 38435
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-F10

<400> 38435

aaggagattc tcctcgcccc ttccactaga ctactggagt acccgacggc ccgaggcggc 60

gagctcgtcg gcgactgacc gccgccggag cagccgccgc ctcccgctgg ttcctgtacc 120

acagcctcgc aggagcgcct ccgttcgcta cgccacccgc cactgtgctg tcggaaggca 180

gctcggacta ctcgcgccgn ctcggcttct ccgcgctcgc cgccccttcg ncggcgtgat 240

caaggatgga gctacatcgt gaacctgctg aagctattct gaatgccata aaatttgatc 300

tcatgacgag tacggatatg gaaaaattga gcagcatgag cataatcgaa gtgagtgatg 360

tcactagtcc gaagctagga ttaccaaatg gttccctgca atgtgagact tgtggatcac 420

aacgtggacg cgactgtgat gggcatt 447

<210> 38436
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F11

<400> 38436

aacaaaaggc aggctatttg ctgaggccgt tgtgggtcat aagggattta ctgaatcagc 60

agcaggaaag gcaagcagcg agaatgagga agggcaagct gtctcgttag aagatgatgt 120

cgggataagt acagacgcag atgaagagct tccggtatct gaagatgatc cagaagtgct 180

actgaggagg cttcaagagc ttgctgatga gaattattcg actgggaaca actgttttgt 240

tttccctgaa gtagtgaaag ctgattcgat gattgatctt tacttaaacc gcagcatgtc 300

ggccttagct agtgagtccg acgtttttgt aaaaggagca ttcaatggtt ggagatggaa 360

ccgtttcact tgaacaatgc atagaagcga at 392

<210> 38437
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-F12

<400> 38437

cccacgcgtc cgactgtatt ttgtaatgta acatttggtg tggtggatgc aattccatga 60

tagcgaatgg cataagattt aatgctaaga agaaacaagt tggaaattat tactctacca 120

aggtatatac tagagcgaag agcgaacaac aatctaagat tgcagcaaga aaggtccagc 180

aaggatggag tcaggacttt tatccatgcg agaaggaacc agattatgta catgtatatg 240

tgtggataga actaaccgcc gatattatcc taaatctaag cacggtcacc cacaaaaaat 300

gtgtaatttg cttcttccca gacatacgaa atgtgttatg cggactatgt tggctattgg 360

aaaggcattc taaatgccgt ctgtaatgtt tgatggttat aaactatngt cgtgctatgt 420

aatatgcggt cttgacat 438

<210> 38438
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F2

<400> 38438

atccagatta cattaagcac ttgaagaagt ttgtgtcaag cgttagcaaa aaagcatcag 60

cgaaacctga cccaaaagaa acaacgtcaa aggacgacac taccagtaaa gaaacagagg 120

aagcgtaccc ggagaaacct caagaggcca agaagtgccc tcagatctcg cgaaagagcc 180

tggacagccg attcgggaaa tccaaaacag tggatgttcc tgataaacca cggatgagct 240

cggacgacat cgacaagttc cggaggagca gatgcttggt ctggtgatgc ctgtgttctg 300

cacaaattgt cgaacagtac ctgagcgagg atactatagc atggaagtca agcaactgta 360

ttacatcatg ctgcgaggaa cggcatcagc ggttcctgca gcggagagga aaggactgtt 420

aaataagaaa aaaagaatc 439

<210> 38439
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F3

<400> 38439

cccacgcgtc cgggctacta acgcccccga tgtcgtcgtc tggggatcag gctcgccgct 60

gcgcgagttc ctgcacgtcg atgacctcgc cgacgccgtc atcttcctga tgggtcacta 120

ctccggcatg gagcatgtca atgtggggag tgggagcgag gtgaccatca aggagctcgc 180

cgaactagtc aaggaggtgg tcggcttcca ggggaacctg gtgtgggact ccagcaagcc 240

ggacggcaca cccaggaagc tcatggatag ctccaagata caggggatgg ggtggaagcc 300

caagatcgcc ctcaaggaag gcctcgtgga aacctacaaa tggtacgtcg agaatgtcat 360

ctcgaacaag aagtagagcc gtgacatg 388

<210> 38440
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F4

<400> 38440

gtgctctgtc cacctctctc gctctgggcc tccgtcgccg ccctaagcca cgtgctgagg 60

ctttcgttgg tctcttcgcc ggcgacgagc acccagcagt tctgtagaaa tggctgatgg 120

tgaggacatc cagcctcttg tctgcgacaa tggcactgga atggtcaagg ctggttttgc 180

tggcgatgat gcaccaaggg cggttttccc tagcattgtt ggccgtcctc gccacactgg 240

tgtcatggta gggatgggac agaaggacgc atatgttggc gatgaggcac agtccaagag 300

aggtattctt acgctcaagt acccgattga gcacggtatt gtgagcaact gggatgacat 360

ggagaaaatc tggcatcata ctttctacaa cgagcttcgt 400

<210> 38441
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-F5

<400> 38441

agagaaactg ccaactaaga ctacctttt ttacactgat gaagtgaagg agaggttcaa 60

caggattctc aaatactata ttgggacaca caatttccat aacttcacta caagaaccaa 120

ggcagaggat cctgcagcaa aaagatttat catttccttt gctgctgacc gtgttgtcag 180

cctggatggg attgattttg tcaggtgtga agttgttgga cagagtttca tgctccatca 240

gatccggaag atgattggtc ttgctgtagc tgtgatgagg aactgtgcac ctgaatcaat 300

ttatgatgtc gcctttcgca aggatgtcaa tcttaatgtg cctactgcac ctgaggtcgg 360

actgtaccta gatgaatgta tgttcacatc atacaacang aaatggaagg attcacatga 420

ggcagttttc atgga 435

<210> 38442
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-F6

<400> 38442

gaacaaggaa aaaccgaaca acgctgatgt ctccaccaac acaaagtcta caaataatga 60

tgaaatggta gaaacctcca acacaaatga tgagaagcat agagaaacac tagatctaaa 120

tagtgagcag agagcagaat cacccaaagc agatgtcaag atgagagcag agacacctga 180

gaaagacaac gacctgccag gggtccaact agtcactgac gatttgaatg ggcaccacga 240

acagatgcaa gaaataaaat tggattgata agcattaagc acaatgctcc cagcccaaat 300

atcttcgaca ccacgtaagt aatatcagag tatntatgat ctgatcacac ggtgccaggt 360

tgtgacagca ctgagggtgg ctaagtttga aatgatactg gtccccccctt ctttcccttt 420

cct 423

<210> 38443
<211> 289
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-F7

<400> 38443

gtcatcgcgt ggtggccgcg ccgctctgtt cctccgtccc ctcctccttc cggctctcgc 60

tgtcacatgt cgtgtggtgt gggggcgctc tgatccggat ggtgcagcgc cgcgggatcg 120

cccacggcca tgattgatcg cgaacgagca gaggaaatgc aagttaataa tgaggcacca 180

ctagggtgcc tcaagccaaa tatttctcag tataactctc cagagcagat aggtggtgtt 240

gaagggtttc ctgagaataa tgaaaaaagg aatgatatnt gtgctgcng 289

<210> 38444
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F8

<400> 38444

cccggcccga cccacgcgtc cggtcggccc ttcgctccaa gagcatttta gttctcgggg 60

taatacacgt ccgagggtcg ggtgtacttt gcaagcggcg aggtgaaccc accggatctt 120

taaacctagc tgatgcccaa ctcgttattc aacttagatg cgacaattgc actggaaagg 180

gcatcgctaa ttaagctaaa catgtttgac caaaagctca tttggacacc atcgcaaagt 240

gtgagcacca ctcaaaagta tgggataaaa atacactgaa agacacatgt g 291

<210> 38445
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E4

<400> 38445

cccacgcgtc cgcccacgcg tccgcccacg tgtccgcgga cgcgtgggcg gagcaacgcc 60

gccgccgtca tcttcagcct atccgcgctg gacggcaaca aggcgaggat cggcgagctc 120

ggcgcgatga ggccgctggt ggagctcctc gagcacggca gcacggcagc gaggaaagac 180

gcggcctcgg ccatcttcaa cctgtgcacg ctgcacgaga acaagtcgcg ggccaccaag 240

agcggggccg tcgacgtgac gctgagggcc gtcgcctgcg ccggggacgg ctctggctcc 300

ggctcgctgg tggacgagtc tctggccgta ctcgcgctgc tgtcgggcga ccacgaggcg 360

gtggaagagg tcggcgagac gggctgcgtg gcctccatgc tccacgtcgt gaaggacgac 420

ccgtgcaagc gcaac 435

<210> 38446
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D10

<400> 38446

ggtcaatgag attctgtctc actatccaat caactacaag caatctggta ttattccgct 60

gcttgatctt gcacagcagc agcatggtgg atgggtgcca gttgcagcaa tggatgctat 120

tgctaaaatt gtcgaagttg caccaatcag ggtttatgaa gttgcaacct tttataccat 180

gtttaacagg actaaggttg gtaaatacca ccttctggtg tgtggaacta caccttgtat 240

gattcgtggt tcacgtgaaa tcgaagagac gttgttggag caccttggag ttaaacgaaa 300

tgaggtgacc agtgatggtt tattttctgt tggagaaatg gagtgcatgg gttgctgtgt 360

gaatgctcct atgattgctg tggctgacta ctcgaaaggc tcagagggtt acacatataa 420

ctactatg 428

<210> 38447
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D11

<400> 38447

ggggaagaga acgcgccgca ccgggcagct aacgaaacca agccaagcca tggcagccaa 60

ccccaaccac tgcctccgcc gcctcgcctc agctctctcc cacggtcccc ggcctccgac 120

tcctccccta tccctcctct tcccccgcct cgcgctctcc agctccggcc cctccacggg 180

cccgccgccg ccgccgccgg atgccgtaag gaaggggggag ggagaggaag cggcggaagc 240

tagggccgcc gaagccgacg ccgaagcggg gaaggaggaa gagcatgagg ccgacggcgg 300

tgcgcacgtg aacaaggcca ccggcgaggt cggcggcccg cgggggcccg agcccacgag 360

gtacggcgac tgggagcgcg ccggccgctg ctccgatttc t 401

<210> 38448
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D2

<400> 38448

cccacgcgtc cgcccacgcg tccgaataaa tagcaatgga ggtgcaaaat ttgatggaat 60

gccaaggttc accgctcgag ttgctgttat tgaggcgctg aaggaaaagg ggttgtataa 120

ggacacaaag aagaatgaaa tgagcttggg tgtttgttca agaactaatg atgtagtgga 180

acctatgata aaaccacagt ggtttgttaa ttgcaaccac atggccaagg cgggccttga 240

cgctgtaagg tcgaaaaaga ttgaaattat tccccagcag tatgagcaag actggtacag 300

atggcttgaa aatatacgtg attggtgtgt ctcaaggcaa ctttggtggg gacatcgtgt 360

acctgcatgg tatgtgacac 380

<210> 38449
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-D3

<400> 38449

cccagttgac gaagagggag ctgctgccgt tgtcctggcc cagctcgaga gaagtctttt 60

ggtcttggcc tcttgctgcc gctgcccccc aatcggcgcc gctttgcttc ctggtttccg 120

caaggttcca cacatcagca tccgagactt gggatggaag gcacggcgtc ttcttggagc 180

cgcgactagg gtgggaagga aagttacttg ctgccgtctt cgcggtcttt gcgcangcag 240

ggtagagccg gagatcagag atcttggtgc agacaagtcc ttcggcgtgc agggtaaata 300

tcgcctactt cttcttcaga tatatatgct tgtcggcgaa gtcctttcgc gttccgatca 360

tcagcttttc ttccaatttg tagttctctc taagcggaat ctttgngttc ttgaaagaga 420

gagagagaga gagag 435

<210> 38450
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D4

<400> 38450

cggacgcgtg ggcgtacccg gaggagaact cgcggttcct gcgcacgaac gggatccgcg 60

ttcaccagtt cgccgtcgaa gggagcaaga gtggtccgac agtgctggat accatgtcgg 120

cgcaggaacc attcgtccac atccccgaag aaacgatccg agaggcgctc aaagttgtcc 180

ttgacgtgag aaaccagccg gtcctcatcc actgcaagag aggcaagcac cggactggct 240

gcgtcgtcgg atgcctgagg aagctgcaga agtggtgcct gtcctccgtg ttcgacgagt 300

acctgcactt cgcggcggcg aaggcgagga ccaccgacca gaggttcatg gagctgttcg 360

acgcgtcgag cctgatgca 379

<210> 38451
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D5

<400> 38451

cccacgcgtc cgcccacgcg tccgtccacg cgtccgctgc tgtccagcag ttatatatct 60

gtcattttca tgtgcacact atcaagctat atcagtcatt cagtactggg gtttaagcag 120

caatgcagca tcctgaatca tgtgttaaat gataacaaca ataatgattt aaaaaataag 180

accttgtcgt ccccaccagg ccacagacct gggttatcaa tgcttaagat tccaattgat 240

tctactgaaa ataccttttc tattgatagg tatgggcttc tacgaggaac cctcagggct 300

ccagccctgg gctggatgat gtacaatgtt ctggtgagca atgaaaagtc gatccagtct 360

cagtacaagt cccacgtcta cgccaaccct gacaacgtga cgccagatat catcgagagc 420

cgata 425

<210> 38452
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-D6

<400> 38452

cccacgcgtc cggaacttgg ccccgcctcc cgtctcttac cgcacatgcg cgtcgggccg 60

cgtcgacata gctgcttgcc gccgacaccc gcagccgcaa tggccgtcgc ccacgcgccg 120

ccgcgccggg gcgtgctccc cctcctgctc gtcgccgcgc tcgtggcggc gttgccggcc 180

acctgcgccg cggccaggag caagaagtcg tacacggcca tcttcagctt cggggactcg 240

ctctccgacg ccggcaacct catcgtcaac ggcacgccca aggcgctcac caccgcgcgc 300

cctccctacg ggatgacctt cttccgcaag cccaccggcc gctgctccaa cggccgnctc 360

gtcgtcgact tnctggccga gcatttcggg ct 392

<210> 38453
<211> 329
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-D7

<400> 38453

ggttgagatt gacaacttca tggtccaaca gcttgatgga acctccaatg agtggggctg 60

gtgcaaacag aagcttggag caaatgccat ccttgcggtt tcacttgctg tgtgcaaagc 120

tggagctatg gtgaagaaga ttcctcttta ccagcacatc gcaaatcttg ctgggaacaa 180

aactctggtg ctccctgtac ctgcctttaa tgtgattaat ggagggtcac atgctggaaa 240

caagcttgcc atgcaggagt tcatgatcct nccaactggt gcctnctcgt tcaaagaagc 300

catgaaaatg ggaagtgagg tgtaccaca 329

<210> 38454
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D8

<400> 38454

gatactcttc cttttgccac catgttgctc tggttctctt gctgcaatgt cagtgtttga 60

gtcgaagtac aaagaaggcc ttactaggga ggagggaata cagattgtgt gcgaagcaat 120

ctgtgctggt attttcaatg acttgggtag tgggagcaac gtggacgtct gcgtgataac 180

caaggggaag acagaatact tgagaaacca ccagttgccg aatcccaaga cttatgctag 240

ttcaaaggga tacagtttca ccaaggggca gactgaagta ctgtcttcaa aggtcacact 300

tctaaagcag aaggttgagg tcgccgaagg tggtgatgct atggaggagt gatcttgcat 360

cctgcattca tacaagcata ttctgaatct gtgtaacttt gcttagtgga tc 412

<210> 38455
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D9

<400> 38455

cggacgcgtg ggagaacaca gggcacacgc actacacgca cggcacgcag atacatatag 60

agagaggtta gctatagctt gcacatctat ttaactaact aactaactgg ctagctagct 120

cgatccgcag agcaaagcga aagcagcaag aagcaaagca atggagaacc ctgcgagtgt 180

gctagttcta ccagcgcagt tcaccaaact caccttcgga aacctgtaca tccgccgggc 240

cgggccgggc agcagggaga taaccgagga gggcaagtgc gacctggaca ggagatacgt 300

gagtaacttc cccgtctacg acggccgcgg ccccgacgcc agccttgtgg cccgcgtgca 360

ggggatcacc agcgaaatcg ggaacgcgca ccaactgttc cgtcgtgtgt tcgacaccga 420

caggct 426

<210> 38456
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E1

<400> 38456

cttcaacaca ttggcaaatc aggctgtggt gcgggcagct ggtactgatg gccaaaagag 60

gacatacggt gtcataaaac accgtttggg cgatctattt tatcgcctag tatctcaaaa 120

gttcgaggat cctgccgaag gtgaagaagc tttggtcggc aaatttaaga aactgtatga 180

tgacctcacc actggtttcc gcaatctcga agacgaggca cggtgaacta gtgtagattc 240

tgtgtaaaca aggactgcca aatgttttat aagatacata aattgtagat tgagatcatc 300

tgtaagaatt attcccaccg ttgcaccatc tcttcggcac cactgtttta gtcatcggtg 360

cctgaatggc acccctgtta tttcatgtat 390

<210> 38457
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E10

<400> 38457

agctgacctc ttacacgcgc agttatgcga gtcctgacgg tacctgaaat tcgtgcactg 60

gatcgcgaac caggccatac tagaggtctt tgccggctgt cggcgcgtgc acatcatcta 120

cttgagaatc taacagggga tgcagtggcc ggctcttctg caggcgctcg cgctgcagcc 180

tggctgccca atgtcgttcc ggctcacccg cgtcagacca ccgtagcccg acgagaccga 240

cgccttgcag ctagtgggct gtaaactggc ccagttggag cacaccatgc tcgtggactt 300

gcagtacc 308

<210> 38458
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-E11

<400> 38458

cagcgctcaa gttctcgcgc ccacagccaa atttttctcc actcaatcgc ggcataagct 60

gcactgcagc catggacgcc agcggagccg gtagcaaggc gaagaagggg gcggctgggc 120

gcaaggctgg cggccccagg aagaagtcgg tgtcgcggtc cgtcaaggcc gggctgcagt 180

tccccgtcgg ccggatcggg cgctacctca agaaggggcg gtacgcgcag cgcgtgggca 240

ccggcgcccc cgtctatctc gccgccgtgc ttgagtacct cgccgccgag gtgctggagc 300

tgggccggaa cgcggcgaag gacaacanga agacgcgcat cgtcccgcga cacttgctcc 360

tgggcgatcg taacgacgtt ga 382

<210> 38459
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E2

<400> 38459

cccacgcgta cggctagcta gcacctagct gtcgtacaca cgggctagca gtcgatcaca 60

gaccgatcgc ggagaggcaa tcacgtacgt atacacacgg gcacgtaact agctatctag 120

ctagcagtcg tagagtgacg atgaggggtc tctctgttgc ggtcgctctg gtcgtggtgg 180

tggccgcggc ctgcctcgcc gcgccgcggg gcgcggacgg tgcggtcgag agctgggcga 240

cgccgaggga cacggtggcg ctgatgctgg cgacgcgcgc gtcggtggcg gaggacaatg 300

ggtccagtgc gtccagctcc tgatggatgg cg 332

<210> 38460
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D1

<400> 38460

cccacgcgtc cgcccacgcg tccgcccact cgtccgctcg ccttgcgctt cctcgccgcc 60

ccagttcccc acccccctgct cacccacccg tcccctcctg ctcgcccatg gctcccatcg 120

ctgtcggcga cgccctcccc gacggccagc tcgggtggtt cgacgagaac gaccagctgc 180

agcaggtctc cgtccacgcg ctcgccgccg gcaagaaggt catcctcttc ggcgtccccg 240

gcgccttcac cccgacctgc agcaaccagc atgtgccagg cttcatcaca caggctgagc 300

agctcaaagc caagggtgta gacgagatcc tgcttatcag cgttaacgac cccttcgtca 360

tgaaagcgtg ggcgaagacc taccccgaga 390

<210> 38461
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-B6

<400> 38461

gtggacagag gataactgaa cgacattacc atgttcttgc aaagcaagag ttaaccaagg 60

agtatattgt agaagatctt gaaggagctg accatgtgcc agaccttgat cctagccatg 120

ttatagagtt gaagatatta ggactatatt aaacatagct gcatattaca tcagataaac 180

attgttgatg aatggggaac agcataccgg aaacaaatcc caggttgatg ttgcaagaaa 240

tacgtacgtc attccacttc acctggagac agtgcaaaat gggcctttgt gtgactgtcg 300

cccataaatt cttgtgaagc aaaacacaat tgctcattcg aagaacacca tttgaaggat 360

ctttggtnca atgtaggcct gatagc 386

<210> 38462
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B7

<400> 38462

gcgccgggca gaggataact gaacgatttt attttgttat tgcaaagcaa gagttaggga 60

aggtgtatat tgaagaagat cttgaacgag ctgaccatgt gccagacctt gatcctagcc 120

atgttataca gatgaagata ttacgactat attaaacata gctgcatatt acatcagata 180

aacattgatg atgaatggtg aacagcatac cggagacata tcccaagtcg ctgttgcaag 240

aaatacgtac gtcattccac ttaacctgca aacagtgcaa aatgccccta cgtgtgactg 300

tggcccataa attattgaaa agcataacac aattgctcat tcgacgaaca ccaattgaag 360

<210> 38463
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B8

<400> 38463

gaacaaacca gtgagaattc ttgtgaagag agatgagctg acccttgagg gtatcaagca 60

gttctatgtg aatgtggaca aggaagactg gaagctggac acactgtgtg acctgtatga 120

gaccctggcc attacccaga gtgtcatctt tgtcaacacc cgccgcaagg tggactggct 180

cactgacaag atgaggagca gggaccacac cgtttctgcc actcatggtg acatggacca 240

gaacactaga gacatcatca tgagggagtt ccggtctggc tcctcccgtg tgctcatcac 300

cactgacctg cttgctcgtg gtattgatgt tcagcaggtg tccctggtca tcaactatga 360

tcttcccacc cagccagaga actacctgca tcgtattggt cgtagtggtc 410

<210> 38464
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B9

<400> 38464

gcgcccacgc gtccgcccac gcgtcctgac gatactcgca gctagctgac acggccgaga 60

agcagcttgc attgcaggcg tagtacgtac ccagcagcag ctagcactag cagtccatcg 120

gagcgacgat ggtgagaagg acggtgctgg cggcgctgct ggtggccgcc gccctcgccg 180

gcggcgcgcg ggcgcagctc aaggaggggt tctacgacta ctcctgccca caggcggaga 240

agatcgtcaa ggactacgtg aaggcgcaca tcctccacgc gcccgacgtc gccttcaccc 300

tgctccgcac ccacttccac gactgcttcg tcaggggctg cgacgcgtca gtgctgctta 360

acgcgacggg cg 372

<210> 38465
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C1

<400> 38465

gagctggaat cggtccaggt gtctacgact tccactcgcc caggatcccc tccaccgagg 60

agatcgcgga ccgcgtcaac aagatgctcg ccgtgctgga caccaacatc ctctgggtga 120

accctgactg cggtctcaag acacgcaagt acacggaggt gaagcctgcc ctgaccaaca 180

tggtctccgc caccaagctc atccgcaccc agctcggcag cgcgaaatga gtcagatttg 240

gtagatccat ggtttgttga acacaaaagc cagcagggtc atttgtttcg aataatttgg 300

gtccttactc ctgttccatg gcgttaggtt agcctcattg gtgttggtgg ggtacggcgt 360

tacgtgtccg tgttctaagt ttggagtgtg tgtttctctt ttt 403

<210> 38466
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-C10

<400> 38466

ggcagagcgt cttgggaatg cccttatgca tgatcctgct atgtccagta tgcttgagaa 60

cttgaccagt ccagctcata aggagcagct tgaggagagg atggcccgta tcaaggaaga 120

tccatccttg aagccaattc ttgatgagat agagaatggg ggtccatctg caatggtgaa 180

gtattggaat gaccctgagg ttcttcaaaa gattggccag gcaatgggtg ttaaccttcc 240

cggagattct agtgtgtcca ctgtgctctc tggacccgaa gagactgagg aggaaggagg 300

ggatgacgat gagtccattg ttcatcacac tgcaagtgtt ggtgatgaag agggtttgaa 360

gaaagcttta gaaggtggag cagacaagga tgaagaagat gccgagggaa gacnggcttt 420

acattttgca tgtggctatg gtg 443

<210> 38467
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C11

<400> 38467

cgagaagccc agaaggtgag aagatagata gagagagaga gagtgatcgg tacaaggatc 60

accgctgtgc ctgcgcgtgc tgcttcaccg aatcgagtca gaccctgtcc gaatccgagc 120

caagggatgg caaccggtag tgaggcctcg aaggcagctg aggctgtggt tgactggcat 180

aaacaggaca gcaagaggat gctccatgcg gattaccgtg ttggggatct ggaccgtaca 240

atcaagtact acacggaatg ctttgggatg aaactgctga ggaaaaggga tgttcctgat 300

gagaagtaca ccaacgc 317

<210> 38468
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C12

<400> 38468

acggaagccc agtgcgaaag aacatagact gagagcaaga gagtgaggac cacatggatg 60

agtctacttg agcacgtgcg cggaataacc gtatagaatc acaagcaggg tttgatgaac 120

ccaactgatt taaacaacta cagactctca gatggcacca gatgttacat ctgactgaaa 180

tctacagcaa aaagcgttga agctaaaccc acacaagaca ctataatacg acttgctcct 240

ccactaacac tcaacgctga ggagcttgaa gaaacatcca aggcacttag atacgtacct 300

gaacatga 308

<210> 38469
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C2

<400> 38469

cccacgcgtc cgaagatatt gtgtcaaagc tgttggactt cattgctgaa cctcactctg 60

cagctgaatc ttgggcctct gatgatcagg gatcaaattc taaaaaacgc aagagaggag 120

gtgaaagtgc aagtaagacg cctgatggca cacctagtag gtcgaggaag aaatttgtcg 180

atgacggtac ttctagtaaa aggcagaata aagcgctcca gtatgatact gaggaggatg 240

aatccatgaa gtctgacagt gaggaaaaca tagatgaaga ttcagatgaa gctgctgaca 300

aacaggaagt tgactatgga tctgggaaag aaaaggcaag gaagaagtta 350

<210> 38470
<211> 393
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C3

<400> 38470

cggacgcgtg ggcggacgcg tgggtccggt acgcgtgggc ggacgcgtgg gtagatcgcg 60

agcgccgccc ttttttttt tttttaacaa ctttctgcct tactgaacca ctgcaaaacc 120

agaacaggtt cactcgctct tgctctcggt ctgtctaaac ctttgtgctt acacctggca 180

gaacgcacat atccaatata catccatcaa ccatagcacc aggtccaaaa gaaaaatcca 240

agaaataata gtcgacttaa atcagacatg atcaatcaag accaagcaat atccttctat 300

gtatgtacta gaacaaaaag atgtgacatg cacacattgt gttggatgtg ttggtatcat 360

caatcaagga ccttcttgac ttcctgaaca aac 393

<210> 38471
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C4

<400> 38471

cccacgcgtc cgcccacgcg tccggattta tttataggaa tttgttagtg gaatacaggg 60

agtattgcag aaatcagcgt ttttttttcac aggagaaatg tgggtttcag gaaaaaagca 120

ctgcattcca aaggggacct gaaattcgtg ctagattcat gtacaattct tacattccaa 180

agaggcccaa atgccagcaa gctaggatca ctggtctctc ttggacctgt gcttcctggt 240

gccatccttc ctgctccatc aaccatcatg ttgactttat gaagctgatc agatggggat 300

gcttgggaac catggagtgg gtttgctttg gcttctggtt cgggttttat taggtgatat 360

gggatctagc ctgtaatcga tgtttttttta tttggttcat tgtaaattta tat 413

<210> 38472
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C5

<400> 38472

cttggagata ggtggcccta gaaatttata tatggatcac caatcttccc caaatgagag 60

acccatcaaa gcagcagatc atgaaaacaa ctccaaggag tcaatgatag aaaatttaga 120

ggagccaact gttcgagctg ctgacctaat tggttcaatg gccaaaaaca tggataccca 180

acaggcagca agagctgcag aagatacccc taatttctct tccaaagtgc cagaagggaa 240

aggtaagaat gaccagcatg ataattatgt tttgccatca cttgagctga gtttgaagag 300

gtcgagatca tgtggagatg gtgccaacga tacagtcaat gacgatgaac agcggaatag 360

tgcattaaag cgatcgaatc 380

<210> 38473
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C6

<400> 38473

ctcgccaaat acacccaggg tttcagcggt gcagatatca cagagatctg ccagcgcgcg 60

tgcaagtatg ccatcaggga gaacatcgag aaggatatcg agagggagag gcgcagcaaa 120

gacaaccccg aagctatgga agaagacgag gtagacgaca tcgctgagat caaggctgct 180

cacttcgagg agtccatgaa gtacgcccgt cgcagcgtga gtgacgccga catccgcaag 240

taccaggcct tcgcccagac actccagcag tcccgcgggt ttggcagcga gttccggttc 300

cgcgaccaac cgacggcagc tgctgctgca gccgatccct tcgcatccgc tgcagcagca 360

gctgacgatg atgacttata cagttaaatt agcagtcctg tgttgtgacg catattgaag 420

actttgcttt cgtatatgct 440

<210> 38474
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-C7

<400> 38474

ggtgaaatgg agaatccagg ggatggatga ttcatcttta cctctgtcag tcaattgctg 60

gccgtctgta tctggaaatg aaacctatgt gaacattgaa tatgaagctt ctgagatgtt 120

tgatctgcac aatgttgtca tatctatacc tctgcctgca gttcgggagg ctccaagtgt 180

cagacagata gatggagagt ggaagttgga ctcaagaaac tctgtgttgg aatggtctat 240

tctccttatt gatcagtcga atcgcagtgg ttccatggaa tttgttgttc ccccagctga 300

tccgtcatca tttttcccca tctctgntgg attttctgca tcgagtactt tcagtgatct 360

g 361

<210> 38475
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C8

<400> 38475

cggacgcgtg ggaaatgatt tgaagagccc taagaagcaa gacctagaga gaactgctgg 60

atctgttctt tttgactggg agacagaaat atatgtagca agggcacctg gacgtttgga 120

cgtcatgggt ggcattgctg attattcagg gagtcttgtt ttgcagatgc ctcttcggga 180

agcttgccat gttgctgttc agagaaacca tcccagcaag cagaagcttt ggaaacatac 240

aaaagcaaga cagcttgtta acggaagctt ggtacctgtg atacaaattg gatcatttgg 300

ttctgatttg agtaaccgtg caccaacttt tgatatggac ctgtcagatt ttatggaatg 360

a 361

<210> 38476
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C9

<400> 38476

gttttggagc tctgcgcaat gaccatgata tattccaaac gtttgagggg gacaatactg 60

ttcttctgca gcaggtcgct ggagatctcc tgaagcagta ccaggagaag tttaagggag 120

ggacactttc agtcacttgg aattacttaa gggactccat gggtacctac ctgtcccagc 180

ctaatcctgt cactgcccga tgggagggtg aagatcatct gcgggatcct aatttccagc 240

tggatgcatt cagataccga acatctcggt tgctacatag tgttgctgct cggcttcaga 300

aacacagcaa gacgcttgga ggttttggtg cgtggaatag atgtttgaat catcttctta 360

cgcttgcaga atcacacatt gagtctgtca tccttgcaaa gttcattgaa tcagtgaaaa 420

gcttgcctga cgaaaaatcg c 441

<210> 38477
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-B5

<400> 38477

cagccgtgga ctctcttccg taagccctag cccctagccc ctagccgcca gtgtcatgcg 60

ttcgtgctga ggctcaactg ctgatccgtc ttccaagctc tggtatcatc cctgagcact 120

gatttaagat gtatctccag tactacatca acgagaaggg ggacaaggtc tacaccacca 180

agaaggagtc acctcttggg gtgccaacgc agtctgctca cccagctcgg ttctcacctg 240

atgacaagta ctctcgccaa cgatacctgt tgaagaagag atttggactt ctgccaacgc 300

agaatccagg accgaagtac tgaagcttca agtcaactgt ccaacctgcg atgttctttt 360

tgtgtcaatg cttngtggtt ggaatgtact atcttcgttc tcgaatattt gtggtccgct 420

agttcaattt tgaact 436

<210> 38478
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H8

<400> 38478

ccctctccga aatcaaggta gcgtacacct ttgcagtctc tagagccctc tctgccactg 60

gtgatcccac tagtcacaat gcctgccctc gccaagcccg ccttccgcac cggcaagccc 120

gccgcggctc cgaagccgaa gcctgccgcc gccaagccga aggcggccac cgctggtgcc 180

gtccacccgc cttacttcga gatgatcaag gacgctatca cggcgctcaa ggagaggacc 240

ggctccagct cgcaagcgat cgccaagtat gtgggggaca agcacggcgc gtctctgccg 300

gccaacttca agaggatgct ttccatccag c 331

<210> 38479
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H9

<400> 38479

ggtgggttgg cttctcctcc ccctccggtt tgggttcggg ttcgtgaggt tctccggggt 60

tcggtttcgt gggtgagcgg atcgagatgg cggcgtcgga tgttgagtac cgctgcttcg 120

tcggcggcct cgcctgggcc acggacgacc actccctcca caacgccttc agcacctacg 180

gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg 240

gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300

aggagctgga cggccgcaac atcaccgtca acgaggccca gtcccgcggc ggccgtggag 360

gcggcggcgg cggcgggtac ggtggtggcc gtggaggcgg cggctaccgc ggtggcgggc 420

gccgtgat 428

<210> 38480
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-A1

<400> 38480

gttggtatgg tcatatatca gaaaccaatg tacaatattt gctatgagaa aagatctgaa 60

aacagcccgc cattgtgcaa ggaatctgat gatgcagatg ctgcttggaa tgtaccgttg 120

gaagcatgca tgcacaaact gcctggtggc tcaaaagtcc gaggatcaaa atggccagag 180

ttatggccgc aaaggcttga gaagacccct ttctggattg atggttccaa ggttggtgtc 240

tatggaaagc ctgcaaatga agattttgag gcagataatg cccactggaa acgggttgta 300

agtaaatcgt atgtgaatgg catgggaatt gact 334

<210> 38481
<211> 368
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-A10

<400> 38481

cccacgcgtc cgcggacgcg tgggctggct ccgtcctgat ggtcttctac cgaggcccat 60

ctctgatcgg gaccggaggc gcggccgatg caactgccct gtcagtggtt attgaccaca 120

gccatgccta taactatgct cctcagtggc tggccgcggc catgctccgg aacggcgtgg 180

aggcatggca tctcggcgtc gtctgcctca tcggaaactg cttcctgatg ggcgcttacc 240

tcgtcatcca ggccccggtg ctgatcaaat accccgcgag cttatccctg accgnctact 300

cctactcctt cgcaaccttg ttcatggtgg tcaccggcgc gttcgccacc agtgggcttc 360

acgagtgg 368

<210> 38482
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-A11

<400> 38482

cccacgcgtc cggttccccg cctcacccct agccagccgt ctcgctaggg tttcgccggc 60

gccgccgccg ccgccgccgc tatgcctcgc cgcagctcag gaaggtctgc cccacgccca 120

gctccccgtg ctgctccagt gaggaacccg ccacagccag cacgccaggc tcctcctcca 180

gctcctgttc gagatggtgg tggctccatg tttggaggaa tcgggtccac cattgctcaa 240

ggtatggcgt ttggcacggg tagtgccatg gcacacaggg ctgctgatgc tgtattaggt 300

ccccggacca ttcagcatga gactgttgcc tcagaagctg ctgctgctgc ccctgccccc 360

ccagtgatga atgctgacgc tngcagcatn cattctaagg ctttccaaga ttgtctcaac 420

aactatggca gcgagatca 439

<210> 38483
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-A12

<400> 38483

cccacgcgtc cgcggcctca agcagaggaa gctttccgcc cgggaacgcc atggggtcgc 60

ttcctctcct tgctgcctgc tgctccctcc tgctcacggt cgcagctcct gcccgggaca 120

gcactaccag cgtctgccct tcgcaaatca gcgatttccc gcaccggaac agttcgggcc 180

ttcacctgac gctgcaccac ccgcagagcc cctgctcgcc ggcgccgctc ccgtccgacc 240

ctcccttctc cacagtcctc acccacgacg atgccgcgcg tcgccacctc gcgtcgcgac 300

<210> 38484
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-A2

<400> 38484

cggacgcgtg ggcggacgcg tgggtctaga tcgctagcgg ccgccgcgat ctagaaccgc 60

gtttccgtct tctcctccga cgagttgccc caatccgccc agacctccaa catcgcaacg 120

gagcccaccc tgcctgcctc gccgcgatcc ctccgcgctg ctcgaggctc ctgtcctgaa 180

ccaatcgaga acgccgactt ccggggacgg gatcatctaa agccgcctcc ttcccgttga 240

atccgccgag attcggcgtg aggcgaggtt accgacttcc cttgcgcgta gggccggcag 300

gagcgcccgc tggccatggc gtgccggggc ttctttgagt gcgtcctcaa gctcctcaac 360

ctcgtcgtca tggcggttgg gctg 384

<210> 38485
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-A3

<400> 38485

cccacgcgtg cgttcgcttc cgatctttcc ggagtggtat agggcggatt tggtggcggc 60

gactgtgagg cgggcgagcg aggtggtcat tgggctcgcg ccggagaacg ctatgatccc 120

gctgttcgag acgggggggcg tgcagctcga gctcatacgg gatgccgaga ttgagccgtg 180

tgcctacgtg aggtgggagc aagggaggcc gagaggatcc gcttcatgag ttggatgcac 240

acgagagacg gtggggatcc cagcttccca atgcgggaga tccagaagag tcaacggcgg 300

atcgatcaag tggattagca ctcttccctg tctgcgtgat ctgtagaaca nggataagtc 360

ggngacgctg ttctgctttg ccgcgatgga acatgtgttc caatccgaga atttcaagct 420

ggggcggttg ggatgagggg gaag 444

<210> 38486
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-A4

<400> 38486

caaagttcgg agtcgaggcc gccgcccaga ccgccttccc ttccccgcct ccggtgccca 60

aggccaggcc aacagttttg aggtggtaat ggcggaccag gctaaccaac ccactgtcct 120

tcataagcta ggtggccagt tccacctgag ctccagcttc tctgaaggtg tacgggcccg 180

taacatctgc ctttctttct catcttatga aaggagattt gccacgagga actacatgac 240

ccagagcctt tggggcccct caatgtctgt tagcggtggc atcaatgttc cagtgatgcc 300

gactccgctt tttgccaatg ctccagccga gaaaagtggc aaaaacttca tgaatgattt 360

cat 363

<210> 38487
<211> 357
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-A7

<400> 38487

gaccccgacc cacgcgtacg cntgggttcg cttaccatat ttcttgaatg ttataagcct 60

actttcgcgt ccgtgactcg catgattcta cctaggtggg cactgatcta acgccctaga 120

actctattaa ccccctcttc aatacaaaag gcgtgcacct ccagctcata ctggatgccc 180

agatcgagcc ctgtgcctac gttaggtggg aacaaaggag gcccacagga tccgctttat 240

gaaatggatg cacacgatag accgtggaga tcccaccttc tcaatgcggg agatccacaa 300

gagtcaactg cggatctatc aactcgatta gcactctccc ctgactgcgt gatctgt 357

<210> 38488
<211> 369
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-A9

<400> 38488

ataactggga tcatctcgaa aaccatctct aagaaaggga tgcttgaagt gtacaactct 60

ttgagcgagg aaggcaaaaa ggagttcaac aaggcttata gcgcatcgtt ttacccatgc 120

atggatatac tctacgaatg ctatgaagat gtggcctctg gaagtgaaat ccggagcgtg 180

gtgttggctg ggcggaggtt ttatgagaaa gagggcctnc agcttttcc gatgggcaac 240

atcgaccaaa ctcgcatgtg gaaggttggt gaaaaggtgc gctcaacccg tccggaaagt 300

gatcttggcc cgctccatgc ctttactgct ggaatgtaca ttgccctgat gatggctcaa 360

attgagatc 369

<210> 38489
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B10

<400> 38489

cccacgcgtc cggcatggtg gaaagagttt ttcactactc agaactggtg aacatgatcg 60

gcaccatgta tcctaccttt cctcttccgg acaagtgtgc agatgacaag ccgttggtcc 120

aaccttacca agtttcaaag gagaggataa aaggcttagg cttcgagtgg attcacactg 180

gacacgaccg tcaaggacac catcgaaggc tagaaagaga gggggtccgt tggtttgaga 240

ctcgcgcact ctgagacaca taagtgacac gtgctatacg agatgtcaca ttgtacacac 300

gtat 304

<210> 38490
<211> 355

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B11

<400> 38490

cccacgcgtc cgccgacgcg tggcttcttt aggagcctag ctcattgatc atcgggaggg 60

cttctttgca aaaaatgcca tcaagtatag ctaagctgat gtagacaggc tctgacactc 120

gttgctagaa atgaactctg gaaattaact tgagtccccc aatgattgca cactgtaacc 180

ccgctgggat atatatgtga caactctcac gctaatgtaa cgaatgctgc tgccaagaat 240

aaatgatcta tctggctggt gacaaatgct gctgacaagg ggcgatcgtc taacaggctc 300

caagcttacc tagccggtca tgcaccttca tgactcttaa attgtgtcac ctaaa 355

<210> 38491
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B2

<400> 38491

gcgccattgg ccagctagag ccaaccagat tagcttgcag ttactgagag tgtgtgtgag 60

agagaggatg ggtggcagcg gcagggctgc tctgctgctg gccctggtgg tggtggccgt 120

gagcctggcc gtggagatcc aggccgacgc cgggtacggt tacggcggcg ggtacacccc 180

gacgccgacg ccggccaccc cgaccccgaa gcccgagaag ccccccacca aggggccgaa 240

gccggacaag ccgtccaagg agcacaagcc gaccaaggag cacgggcgca agccggagaa 300

gcgcgccaag gagcacaagc cgacgccagc cacgtacacc ctgagcccca cacccacgcc 360

ggcgacgtac actc 374

<210> 38492
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B4

<400> 38492

caaaatgttg ttgaagaact tgagaaagat ctgaatcata tgatagttcg ccattcgtat 60

gtgacagttg tacatgcctg tatcaagtgc ctttgtgctc tgagcgagtc agcaggtaga 120

ggtccaggat tagtggaaaa ccttgtcaat attttctaca agcatctgtc tggagctaat 180

tcagatagtc agttattggg tcgatcactg ttttgtcttg gactcctcct tcggtatggt 240

tatcaattga tgcaaacatc tgaaaatcag cttgattttc ccaagattat caacttgctc 300

cagagaaaat atcttctcag ggatgatttt agcttgaagg ttcgagcttt gcagactttg 360

ggatacatac t 371

<210> 38493
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H7

<400> 38493

ataatctctt cttcacctca ctaacaccag ctagcaactc tttctctcct gcaataatgg 60

ccgctcgctc ctcctgctcc cagccgcagc tggtcgcggc ggcggcggtc ctggcagcgg 120

cgctgctgct gctggcggcg ggggccggga cggcgtctgc ggcggtgagc tgcggcgagg 180

tgacgtcgtc ggtggcgccg tgcctcgggt acgcgatggg cagcgcggcg tcgccctccg 240

cggcgtgctg cagcggggtg cgctcgctca acagccgcgc gtcgtcggcg gcggaccggc 300

aggccacctg caactgcctc aagagcatga ccggccggct c 341

<210> 38494
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G4

<400> 38494

aatttggata gagatatatg ccaattggca attgctaaag aaaagaaaag aaaaatctcg 60

gtctggaccg gcctggcatc agcacacgtc cacacctaac ggcgccaatt ctaccatcca 120

ttccaataat ccaaggtaac cgaaagcagc agcggaggtc gcaagaacac ttccctcctc 180

tccggatcaa tcatcgatca gccaagcccc tacaaaaaaa ccatcgccac atgttggcta 240

atcccacgac gcactgatat ttttcttcct tgattgtctt gctgctattt ataatcgatc 300

tccagcttac agcgacgtcc aggtccaggt ctgagctcga ggcacaggac tccctctata 360

atttatccat ccatggcttc ctccaattcc aacagcagca gcaacccgct tgaagccatg 420

ggcgccttct tctcg 435

<210> 38495
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G5

<400> 38495

ggggttcctt gacaggttcc ttgcttgacc acctacagca gctgcttgac aggttccttg 60

cttgccgccc cactggtggc gcaaagcaaa gcaggatggt gctggttgcg ctgtatcaga 120

ttgtgagaga aagcttccag ctctactctg atatctgcga ggtgctggcg gtgctgctgg 180

acagattctt tgacatggag tatgcggagt gcgtgaaggc ttttgaggca tatgctagtg 240

ctgcaaagca gattgatgag ctctctgcat tctatgcatg gtgtaaagat actggagttg 300

caaggtcatc tgagtaccca gaggtgcagc gtgtcactga taagttgctg gagacgctag 360

aaaagttcat gatggaccgg gctttccctt caaatggtgg caacgaggtg acttcggca 419

<210> 38496
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G6

<400> 38496

cataaacaca atggggatgc cgtttataat tccgttgaaa cagtagaaga atctgttgct 60

ggcaccgaca ctgaagaaaa tggaggtggc ggatgtctaa aattatttac aaactggccg 120

ttgatgtcag ctattacttt atattgtatc ttctctcttc aggatgtggc ttatgcagag 180

acattctctc tttgggctgt cagtgacaga tcgtttggtg gattaagctt tactaccaca 240

gatgtgggca atgtccttgc gatgtcaggt ctcttccttt ttctatatca aatgttgatc 300

tatccgttcc ttgccaaaac ggtagaccac atcacattag tccgtgcagt ggcgttattg 360

actctaccgg ttcttgctag ctacccattc tttacttcga tgtccaggtt cgggctcatg 420

gtggtagtaa attgtgcatc ttttctgaag aataca 456

<210> 38497
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G7

<400> 38497

ccctcgttcc tgtcgcgcag ccacgacctt tacttccaca tcttccccgg cggcggcgcg 60

gtcagttgaa ccatggcgga ctccaaggcc acctcggcgg tcaccctccg cacccgcaag 120

ttcatgacca accgcctcct ggcccgcaag caattcgtgc ttgaggtgat ccaccccggc 180

cgcgccaacg tctccaaggc ggagttgaag gagaggcttg ccaaggcgta cgaggtgaag 240

gaccccaaca ccatctttgt cttcaagttc cgcacccact tcggaggagg aaagtccact 300

ggtttcggcc tcatctacga caacctcgag gctgccaaga agttcgagcc gaaataccgc 360

ctcatcagga atggtcttgc tactaaggtt gagaagtccc gcaagcaaat gaaggagcgg 420

aagaacaggg ccaaga 436

<210> 38498
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H1

<400> 38498

cggacgcgtg ggcgaggccg ccgcccagac cgccttccct tccccgcctc cggtgcccaa 60

ggccaggcca acagttttga ggtggtaatg gcggaccagg ctaaccaacc cactgtcctt 120

cataagctag gtggccagtt ccacctgagc tccagcttct ctgaaggtgt acgggcccgt 180

aacatctgcc tttctttctc atcttatgaa aggagatttg ccacgaggaa ctacatgacc 240

cagagccttt ggggcccttc aatgtctgtt agcggtggca tcaatgttcc agtgatgccg 300

actccgcttt ttgccaatgc tccagccgag aaaggtggca aaaacttcat gattgatttc 360

atgatgggcg gtgtttcagc tgctgtttcg aagactgcag ctgctcccat tgaacgagtg 420

aagctgctta ttcagaatca ggatgagatg at 452

<210> 38499
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-H10

<400> 38499

ggcggcaagc aaccacgggc ggagctcgtg tgcgtcctcc tcctcccgtc tataagttcc 60

gctccttttc ttcctccata tataggggcc atcagatcca agaagaggga agagcaccaa 120

ggaccttcgg cgcccgttca ggatccacat cttcccgagc gagttcttgg ttgacctctt 180

cctcttcgga ccacctccaa ggctcttggt gtagcttgcc actctcacca atcaagtttt 240

catgtctgat ctcgacattc agatcccaac tgccttcgat cccttcgctg aggccaatgc 300

tggggactct ggtgcggcag cagggtcaaa ggactacgta cacgtgcgca tncagcagcg 360

taatggtcgc aagagcctga ccaccgtcca gggattgaag aaggagttca gctacagcaa 420

gatcctcaaa gatctcaaga aagagttctg ctgcaatg 458

<210> 38500
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H11

<400> 38500

ctctctctca cccatggctt cggcggcggt tgcgactcag gtggggactt acttcgtgcg 60

gaactactac aacctgctgc agcaaacccc cgatgtcgtc caccagttct acagcgaagc 120

cagcaccatg gtccgcgtcg acgacctcac cggcacgacc gcggctgcca acaacatgat 180

ggacatacac tcactcatca tgtctttgaa cttcacccaa attgagatca agactgccaa 240

ttttgtgaac tcatggggcg atggggtgct agttatggtc tctggtctag tgcagaccaa 300

ggagtacagc caccaaagga aatttatcca gatgttcttc cttgcccctc aagagaaggg 360

ttactttgtc ctcaacgatt actttcactt cgttgaccaa gaacatgtgc 410

<210> 38501

<211> 321
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-H12

<400> 38501

cccacgcgtc cgcggacgcg tgggctaact ctagacgtcg cccggccgcc gccatggacc 60

ccgacggcga cccgggcttc caccgcaacg aggccatctc cgcggtccag gatgtcgacc 120

agtactatgg cgacgacgac gacttcgacg acctctacaa cgacgtcaac gtcggggacg 180

gcttactcca cgcctcccac caggcgccgn cgtcgctgcc gtcgtcacct tcgactcagc 240

aggccccacc gccgcagaag caccagctcc ctccgncgtc ccagcagctg ccgccgaccc 300

agcagcatcc acctggccac g 321

<210> 38502
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H2

<400> 38502

acccacgcgt acgcggacgc gtgggcaggt tcgcgccaga ttgacttcct tccaccctac 60

ggtgcccacg ccggtcaaca gttttgaggc ctgatggcgg accacgctaa ccaacccact 120

gtccttcata agctatgtgg ccagttccac ctgagctcca gcttctctga aggtgtacgg 180

gcccgtaaca tctgcctttc tttctcatct tatgaaagga gatttgccac gaggaactac 240

atgacccata gcctttgggg cccttcaatg tctgttagcg gtggcatcaa tgttccagcg 300

atgccgactc cgctttttgc caatgctcca gtcgagaaaa gtggcaaaaa cttcatgatt 360

gatttcatga tgggcggtg 379

<210> 38503
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H3

<400> 38503

gaatgatgga ttcagtgaga aacttcttat tctgttcatt actcataagt ttgatggaag 60

ctacttcatc gagacagaag atggcacttc tggtttagat gtcaaagttg atcacaaggg 120

tgaccacgat tttcgtgtgg atgtttctgg tctgcaaact gatgtgactc tagcatctta 180

ttcaaaggga aacagcaaac acatacatgt ctggcatggg aatcatcacc accattacag 240

acagactgta agagctgagc atgcagttga agatagctcc caacctagtc atgcttctga 300

agggaagtcg catccaaaag ggagtgttct ggcaccgatg gctggcttgg ttgtgaaagt 360

tttgcttgaa gacggtgctc aggtggacgc aaggcagcct gtcatggtta tggaagcaat 420

gaagatggag catggtgtga aggcgcc 447

<210> 38504
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H4

<400> 38504

acgtatcaaa acaaagcatg catttaagta aactcgactc tctccccaat cggattgttt 60

cattggcatt tgatgtgatt tctcgagttt tggaaacagg accgggatgg tgactagttt 120

caccacattt ttcttcactt cttgattcag caatttttcc agcattagca ttgaatgaga 180

aggatataga agaatgggag gaggatactg atgagtatat gcaaaagaat cttccttctg 240

aacttgatga catttctgga tggactgagg atttgttcac tgccagaaaa agtgcaatca 300

atttacttgg tgttatagcg ctatcaaagg gtccaccagt tgcatctgca gcatcaaagc 360

gtaagaaagg gtgataaaat aaagggaaat ctgaaatgag ctca 404

<210> 38505
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H5

<400> 38505

cccacgcgtc cgatgaagtg aagcaattct ttgagggaac atgtggtgaa gtttctcgtc 60

tgaggctact tggtgattat gtgcactcca catgcatcgc ttttgttgag tttgtccaag 120

cagatagtgc tattctcgct ctgaactgca gtggcattgt tcttggaacg cttcctgtta 180

gggtgagccc atcaaagaca ccagtccgct cgcgatcgcc ccgtgtgacg tcatactgaa 240

ttcggctcat ctgaagccgt cgtccagggc agcaaatttc tgggcaacaa agccctagtc 300

gtgtggcctt agagactgcc gcatcgcgga taagtaattg tcgttgagca gagttctccg 360

tggttaaagt ccagtctagt aggaagcgca aagacccgtc tgtatggtcg ctgggagatc 420

tatcttgacc ttctttttct ggtctttt 448

<210> 38506
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H6

<400> 38506

gcgcacacac cacgatctca gcttacttcc acttcagctc caatcacagt cgtgaccggg 60

gcgagtgcta gctagagggg cgtgaaaatg ccgatcaata ggatcgccct gaggagccac 120

cagtatgtgt tccactcgtg cgccctcaag gcggcgttcg ctgagttcat ctgcaccctc 180

atcttcagat tcgccggcca gggctccggc atggtcttca ccaagctgac cggtgggggc 240

ccgactaccc cggcgggcct gatcgcggct gcggtggcac acgcgttcgc gctgttcagt 300

ggccgtgtcg gtgggcgcga acatctccgg aggacacgtg aaccccgccg tgacc 355

<210> 38507
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G3

<400> 38507

aaccgccaac cccccacccc aaggaaggaa ccctacccgt gagaaccgcc gccgcacaac 60

cccggacgtg gtggcaggcg accgatccgg atccatcatc ccaagcttcc tttctgtctc 120

ctcttcatcc atctccacaa ggataatcaa ggaaggaagg ccatggtttt gttcgaactt 180

gacccggaca tcatccgatg gggtcttcac catctcctcc ccgctccggc tggatactct 240

cctcattgtc gcacccaaac cacccctacc acaccttgta cagcttttgc tcgccctcct 300

catcagccca tcggagacat gggtacctca agctccgttg agatcaaggt cgagcatgtc 360

gatggggttg acaacgacgc gatcatcgca caagccctcc aggaggaatt gtccaatgt 419

<210> 38508
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-F11

<400> 38508

ccccaacgaa gtgcgagcga cccacgtcca cacgacacga accaccacca ccaaccagca 60

ggcgcaccac gcacccagcg caaagcgatg gcgtcgctca ccatgatggc gtccttcgcc 120

gccgtggcgg tggccgcgcc ctcgcgccgc ggcaccttcg ccgtggtcag gtccgccaag 180

gtcgaccgct gccaggagcc cgccacgcta gcagcaaccg aggccaggcc cgccgtcgac 240

ggacgccgcg ccgtcatgct cgcggctgct gcggcggccg tggcagccat cggcggcgcc 300

ggcgccgnca tggcgggccc caagaacggg acccccgagg cgaagaagaa gtacgcgggc 360

atctgcgtca ccatgcccac cgncaaggtc tgccacaact gagcacgccc gcg 413

<210> 38509
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F12

<400> 38509

agttagtccg tgtgatgaga tcatgtcctg ttggcgccga cgccgtggtc gtcggcggcg 60

gatacatagg aatggaatgc gcagccgctc tggttgccaa caggatgaaa gtcactgtcg 120

tcttccccgg aaaacacttg atggcaaatc tgttcacacc gaagatcgct gagttttacg 180

agaactacta cgaatcgaaa ggagtcactt ttataaaagg aactgcggtt tcatctctgc 240

agatctcgtc tgggaaggtg acggcagcaa tcctgcgaga cggcaggcgc ctacctgcgg 300

acatggtcgt ggtcggcatc ggcgcgcgcg ccaacacgga gctcttc 347

<210> 38510

<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F2

<400> 38510

cacatttgtt ctctgccagg tgttcaacga attcaattcg cgtaaaccag atgagctgag 60

tatattcaag ggcatttcag ggaaccatct gtttattggc atcatagcta taacagttgt 120

actccaggcg cttatagttg agttccttgg caagtttgcc tcaacggtaa ggctaagttg 180

gcagctgtgg ttggtatcta taggtcttgc tttcttcggc tggccgctgg cattcgtggg 240

gaagcttatt cctgttccta aacgtccatt gggagaattc tttgcatgct gctgtatctg 300

caaggggagc aaacaagccc ctgacgacgc aacctctaat gataaggaag acaacaagcc 360

cgagccttga gatgtcagca agattgatgg ttgccaacaa tgaccttgtt gctgttctta 420

cccggttttg a 431

<210> 38511
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F3

<400> 38511

gcggtttcta ttttaaatac tttatttcct tcataaattt aggatcgctg caacagacat 60

gcaactaaaa ctcgtaatga ccattttatg ctatatactg atactaaata tgctacactg 120

tgtagataat tatgcaattc ggtatactgc gtaaaaatct gctacaggct gcatgcacac 180

gaatttatga tggaaagaat atgcaatgaa aggaaatgaa ttgcatgcat agaaacaaaa 240

aatcacattt aatgttttat ttgcttcata aatataggat ccctgcaaca gccatgcaac 300

taaacgcatt agaactagtt tatgatgtat actgaaacaa attatactac acggtgtagg 360

taattatgca attacttaca ctgcgtaaaa aaatctggca t 401

<210> 38512
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F4

<400> 38512

atagaatccc attcccctcg aacactgcgt cggggaccca gccagctagc cacatccact 60

gatccacgcg cattcccccct accaccgcca ccgcgccgcg tcacggaagg aggaggatgt 120

cgtcgactcc ctcgccggcg gccacccgcc tggatctgga tggcaacccc atcgcgcccc 180

tcaccatctg catgatcggc gccggcggct tcatcggctc ccacctctgt gagaagctaa 240

tggccgagac gcaccacacc gtcctcgctg ttgacgtcta ctgcgacaag atccgccacc 300

tcgtcgaccc cgcgccgacg cacctcgccg ggcgcatctc attccaccgc cttaacataa 360

aaaacgactc caggctagag gggctcatca agatggccga tctgaccata aacctggccg 420

cgatc 425

<210> 38513
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F5

<400> 38513

gcctggcaac tgtgctgtac aggaacctgt atagaaagac gaagttcact atctgagagg 60

atacctgtgg gactgaacct gggatcgttg aagcgagaaa tacagcagaa gcatatgtcc 120

atactcgaaa tgctgacctt gaaacggtct ctgggcaatt actacacagg caagaactgc 180

gggtatatcg ggtaccacag ccttaaaggc ggatatgtga ctgcagatga aaaggtgcca 240

agagaactgg accctgacac gactg 265

<210> 38514
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F6

<400> 38514

cccacgcgtc cgagggacga agcatgctgt ttacgtggtg cccgcaggca gctgggctgg 60

agcatgatgc cgtgggggtg ttcctgacgc actccgggtg gaactccacg ctggagagta 120

tttgcggcgg cgttcccatg ctgtgctggc ccttcttcgc cgagcagcag accaactgcc 180

gatacaagtg caccgagtgg ggcatcggaa aagagatcgg tgacgatgta cagcggggcg 240

aggtagagtc gctcatacgg gaggccatgg agggggagaa agggcaagag atgctccggc 300

gcgtgactga actcagggac agcgccgtgg ccgctgcagg gcctgacgga cggtctatgc 360

gcaacgtaga caggctcatc gaagaggtgc tcctagccta gattgagcac tggtgagcat 420

cctagcagtc atgtgtcttc gcgtcttgca c 451

<210> 38515
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F7

<400> 38515

cccacgcgtc cggtggagag ctgccacagg gttctagcct tgctctccca tccgcatgag 60

cccgcgcagg tcaggagcat agctttgggg acggacgaag catgcaccaa gttcaagaag 120

gtggtctccc tgctcagcaa tggaggagag ggaacaggag aagccggacc atcaagcgca 180

agcgcaagcg gaagccattc tagagctaag cttggtagcc gaagacagaa tccaagggtc 240

ttggactaaa aagggtttct ggacaggaac aacccggtcg tggggcttga caagggcggc 300

cattcttctt cttccttc 318

<210> 38516
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-F8

<400> 38516

cgctctatgt gcttgtgctg cttgttactg ggaggtactc acaaaggctc tacgtggccg 60

acaattgcat gtatgtgctt gggatgttgc ttgcgatgca gatccgtttt gttggattcc 120

aacatgtgca gtccggagag cacatggctg ctatgggagt cttcttcctt ttgcaggttt 180

tcttcttctt ggactgggta aaatacctaa acgatgccag actgttcaag tcattccttc 240

ggattaccct tacatgtgtg attactgttg gcaccctggc tctcggtata ggtactgcat 300

ctggttacat ctctccttgg acaggacgat tttactccct gctagatcct acctatgcan 360

aggaccatat accaatcatc gcatctgttt ctgagcatca accaacagca tggtcatctt 420

tcatgtttga ctttcacatc ctccttttc t 451

<210> 38517
<211> 473
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F9

<400> 38517

gcagttcttc gttgcaatag aacaattgtg ttttccgaat ctaatgcatg tgtcatgggc 60

tgagtatccc cggacagcag ggccttgact acgcagttcg tagtcacgac ccgtcttctc 120

cggcaaggtt ttgcccctca gccgcaggct ccttggtgat gtcgtcaaca tcatcttcct 180

cgatgccctc caggaggaac agccgctggc agacacggtt gtgaccccgg gtgtacttct 240

cgtcgcagtt gtagcagagg cctttgcggc gccgctcctc ttgctccgcc tgggtgagtc 300

gcttgatctg gcagccctcg acggagatca tcgtgggtgc tgctgctcgg ggacctagcg 360

gcgccgacag aggccgtggc ggggcccggg atatcggggc ggcgtactgc tcacgcggct 420

ggaattgcct ggccaggctc atggtggctg ccaggtactg tgggttctgg atg 473

<210> 38518
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G1

<400> 38518

gaaggctcct gccaaggagg aagaggagga ttacgaagag gagtctgaca agtccaagtc 60

ggaggtcaat gacgaggatg acgaagaggg tagcgaggag gatgaagatg atgacgagtg 120

atggagagct cgctcgagac aatggacggt gcttcatcca acaatggagc ggctacacaa 180

ggccccgtgg cgatcaaaaa aaaggagcct atatccatgt actagaatta ttcagtttca 240

ctccacatcg tgatgtttta tttttacttt tgtcgtgcta taacggatag cgctcctcgt 300

tggcgccact ggcgggtggt tctgcctctg gtctggtgtg tttgtgtgtg gtcacacttg 360

ccagctagca gaggcgcctg cttgtaccta gattactggt tccattgtcg tcgtcatcgg 420

ctaacattgt cataatgtca agttgggtaa tgtta 455

<210> 38519
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-G10

<400> 38519

gaaatatata tatatatata catgttagtt tctccccctg cagccttcac cttccggttc 60

agcttcattc cacttccact tggatcgatc gatcgcatat ggcggtactg tggtggtggt 120

catcgtcctg cttgtcctcc cgcgccgtcg ctgctgcgct gctttgcctg ctggtggctc 180

acggcagcga tggaaccagg cacaacagca acaatggcgg tggtagtggt agttccagca 240

gcagcaagag ccacaagcaa ggcggaaggg gacgagccca tgccgcgccg acgacaccgt 300

ctncgtcttc gtatccgtct ccggcggctg gcaacaacag cagcagcgac gacgggtggc 360

tgaacgcccg tgcgacatgg ta 382

<210> 38520
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G11

<400> 38520

ttcgtccgcg caaagctgct taccggaata gctagggcta cgtctacgcc gcttgatcta 60

gtcggctgtg ccggttcgcg aggtagggcg caccgtcgat ggcggcggca ccggcggacg 120

ctaaggcgga ggccgccaag atggacctcc tcgaggacga tgacgagttc gaagagttcg 180

agatcgacca agaatgggat gaccaggaag aaggcaacga agccgtccag cagtgggagg 240

atgattggga tgacgatgac gtgaacgatg atttctcgct gcagcttaag gaagagctgg 300

acggaagcaa cggccagaag agctgaagtt ttatttctct actctatata aatgattttt 360

atatggcagc tacttttgga accgttgatg tgctctggat atgaaagctt ttggac 416

<210> 38521
<211> 465
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-G12

<400> 38521

cccacgcgtc cggcgagaat agggagagat cagacaagct gttgtcggaa tccagtccgg 60

cgaggaggag tgctgaggtc gaaatggggg gaggagcgga tgaggtggtg aaggtcgtgg 120

attcggagga cggcgagggg gaggaggaag aggcagaggc cgcggcggcg gaggggtcga 180

gcaaggagac gccgatgctg ccaaggatgc cggtgcgcgt gctgctcgcc gagggcgacg 240

actccacgcg ccacgtcatc tccgcgctgc tccgcaagtg cggctaccga gttgctgcag 300

cctctgatgg tgtgaaggcg tgggacatat taaaggaaaa atctttcaac atagaccttg 360

gtttaactga agttgaactg cctttgatgt ctgggttcct cttggtatcc acgatcatgg 420

aacatgatgc attcaaaaca tnncctgtat aatgatgtct tcaca 465

<210> 38522
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G2

<400> 38522

cccacgcgtc cgctccctcc ctcccccgcg tcgcggcaag acgacctcgc cgctccctgc 60

ctccgtctcc ccgccgcagg tgctggagat gcaggcgact gccgcctcct tcctcgcccg 120

cccactcccg cggcttcgcc gcattggcag ctggggagcg gatgcggcgg tggtgcgtga 180

gggcgttatc gcgctccctc tgcggctgcg ggggccgcgg tgctccatta gcctctccat 240

cggcgccggc gccggcgctg gcgccgaagc tgaccacgag ttcagctacg agcatgttcc 300

ggtgttccct agataccgaa tacgagatcc ctacaagctt cttggtgttg atcgtgatgc 360

atctgaagaa gagatccgag gtgcgaggaa tttccttatt caacagtatg ctgggcatga 420

accgagtgaa gaagctattg aaggtgctta tgagaagat 459

<210> 38523
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F10

<400> 38523

gcaacaatta gttcgaagat cattctgaac agtgcgcagt gccttctgtg ctacggattg 60

gaaaatcatt cagaacttgt gctttttgaa taaaaccagc tgcagccgct aggcaactcg 120

cggtttcgac agaaattaga tgtttgcagc agacaagttg ggcttaaata attgcagggc 180

gtaatcctag gttctttcta gtagctcaca gtaccgacta ccgagttcaa tcattggcat 240

gcagctgctg cagcagcaag tccaacatct gctaccaacc tgtacctgaa agagagccag 300

gctctgggcg gcacgagtgg ttcggactcc gacagcgatt cgctgctgga catcgaaggt 360

ggcccgtgcg agcagagcac gaacccacag gacgtgaaga ggatgcgacg gatggtgtcg 420

aaccgtgagt ctgctcgac 439

<210> 38524
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D7

<400> 38524

gttccccgtg ggaactgtcg caaatagcct ctccctgata gtgcacccaa taagggtagg 60

gtgatgtgct cctactgcag gcatcatact gagtctgaag ttccagatcc ttattatgga 120

ggccctcacg gatttgaaaa ggtgctggac ttattggaag atgcttgcga gtcgctgctt 180

gatagtatcg tcgcaaacaa tgcaagcatt tctgggtgac atcgatgtaa atctccacat 240

acagacatct attttcagac gcaccgaagg ctgtagcatc catgcacaac cggagtaatt 300

tggtttctaa tgcaacattg atcatgtcgt cattacccag gtcttggtct ggtttgtata 360

taccaccatc cttatacctg gatatgtgat aagtgacaaa aaaactgctc atcatcactt 420

ttttccactt aagataatca gaaacaatca g 451

<210> 38525
<211> 293

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D9

<400> 38525

cggacgcgtg ggcggacgcg tgggcaaact caagcttgtg ggttttcttg tttggctgtg 60

agttcgtgtt tggtcagcaa ctggacgata aggctaacca cgcttgttga tagatggaat 120

ccaacagtcc catttttgt tctgttctgt tctgtagtac atccgctaaa ctgtaaatcc 180

tgggtttcat gtgttcgtct gtctttttat tcaataattg cttccttgaa ggccgtttat 240

gttgtttgtg gaccaatatt gtgaaaaaag aaagaatgta tggaacctgt tgc 293

<210> 38526
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E1

<400> 38526

cccacgcgtc cgcaagggga tcgaagcggt tagcatggga gcggtcgagc gggtgacatg 60

atcggcatcc agggtttctc aatcggcagc gatggcgacc agggcggcgg cgaggttcct 120

gcagcgcagg tttctgtctt ctggcggtaa ggtcctcagc gaggaggaga aggccgccga 180

gaacgtgtac atcaagaaag tggaacaaga gaagctggag aagctcgcac gcaagggccc 240

cagctcagga gagcaaccct cgtcaaccac aggctctgca gcaagtgatg tgaaggccga 300

tgctgggcca acggagtcag catctgcaag tgtgtcgacg gacaagaaca ggaactatgc 360

tgttctggca ggcgcagttg ctgccctggg tggcttgggt tggtatctat t 411

<210> 38527
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E10

<400> 38527

ggaacttcac agagcaggct ctccctgact acctaatcaa gagaggcatg gcggtcgcag 60

acccgtcgag cccgtacaag gtacggctgc tggtggagga ctacccgtac gcgtcggacg 120

ggctggccat ctggcacgcc atcgagcagt gggtgacgga gtacctcgcc gtctactacc 180

ccaacgacgg cgtgctgcgg gcggacgtgg agctgcaggc gtggtggaag gaggcgcgcg 240

aggtcgggca cgccgacctc aaggacgcgc cctggtggcc caagatgcag acggtggccg 300

agctggtcaa ggcctgcacc accatcatct ggatcgcgtc agcgctccac gcggccgtca 360

acttcgggca gtacccgtac gccgggtacc ttccgaacct gccgtccgtc agccggaagc 420

cgatgccggc gccgggcagc gacgagtact ccgagctgga gcgc 464

<210> 38528
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E11

<400> 38528

cccacgcgtc cgcccacgcg tccgttgctt ttgagggccc actcaagggt atcatgggct 60

gcgtggagga cgatctggtt gccaccgact tcaccggtga cagcaggtcg agcatcttcg 120

acgccaaggc cgggattgcc ctgaacgacc acttcatcaa gctcgtctcg tggtacgaca 180

acgagtgggg ctacagcaac cgcgtcgtcg acctgatccg ccacatgttc aagacccagt 240

aggctagtag agagatagat ttctgcctcc ctatcgtggg tcgtccccaa tggcctttgg 300

tcgcagacca tgtttgctgc ttgtctatgc tgagaataaa tgtgaacggt gcccctggac 360

gctggatcca tgctgggttt ggacacgctg tctttatgtg tttaacttat ctgctgccgt 420

cctgtaacga attcgcaagt ttt 443

<210> 38529
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-E12

<400> 38529

ggaaggaaca atcctagctc caatcagtgt taaatcctgg ggttctggct tgctcgagtg 60

gctcgagttc accaaactaa atgggatagt tattcaaggg aacggcatta taaatggcag 120

agggcaacaa tggtggacct actcagaccc agaggatgag gatgatgatg acacgtacca 180

tgtagagttt caaagaatgc cacagattaa acctacagcg ttgaggtttt atggtagttt 240

caacgttgta gtgtctggta tcactattgt caacagctca cagtgccatc ttaagttcga 300

caactgtcaa ggagtgatgg tccatgatgt gaccatatcc tnccctgaga acagtctcaa 360

cactgacgga atacacctgc agaactccaa agatgtcagc attcatcata caaccctggc 420

ttgtggtgat gattgcatct ncatccagac aggatgc 457

<210> 38530
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E3

<400> 38530

cccacgcgtc cggacctagc caaccttgta tacattgcag caataaaggc tgcggttgaa 60

ggtgcggaca aattgaatgc tgttcagttg gagtttgcca aagatcgtat tatcatggga 120

accgagagga gatcaatgtt catatctgat gaatcgagaa agcttactgc ctaccatgaa 180

agtggacatg ctattgttgc actcaacacc cagggtgctc accccataca caaggcaact 240

atccttcctc gtggatctgc ccttggaatg gtcacacaac ttccctcaca ggatgagacc 300

tctattagca agaaacaact tcttgcacgt cttgatgt 338

<210> 38531
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E4

<400> 38531

atcaaccgaa attatggcgc gcttcaatcg tggctacgct gatggggacc tgatccgttg 60

tggtgtgctt gaatcgtggc tgtggagatg tgtggaactc attggttaaa gtgtgcttta 120

ttaataatgg tgatgctgat ggaactgatt ttgctcccgt tggacggcct gattggttac 180

tttgccctgt tgactgtttg agaacgtacc gcccaggttt acttatactt actgcttttt 240

gacggtactg tacatacagt tcgacaattt atttattggc agttcaattc 290

<210> 38532
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E5

<400> 38532

cggacgcgtg ggcggacgcg tgggcatcac tgcccaaatc atatctgcta gtatagcggg 60

tgatatggtt cttgcttctg cctactcgca tgagttgcca cgatatggtc ttgaagttgg 120

tctgaccaac tatgcagctg cctactgcac tggccttctg ttggctcgcc gtgtgctcaa 180

gatccgtggt ttggatcagg agtacgaggg caatgttgag gccactggtg aggacttctc 240

tgttgagcca gctgatgaga ggaggccttt ccgtgctctc ttggatgttg gccttatcag 300

gactacaaca gggaaccgtg tctttggtgc cctcaaggga gcattggatg gaggcctgga 360

tattcctcac aacgagaaaa agtttgctgg attcaagaag gacgacaagc aattggatgc 420

tgata 425

<210> 38533
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E6

<400> 38533

cggacgcgtg ggaagcttca acaagtcatg ctttgattag tagccatgta acagggctgg 60

ctggtctcat gaaccgtagc tcaaatgcaa tcccttcacc aggaattagt aattttcaaa 120

gcggaaatat tcattatgtt gttaatcaga acgctatggg agttagctct aagccaccag 180

gtgttctaaa gaccgagagc actgactcac tgagttgtag ttatggctat attggtggta 240

gcaccagtgt ggactctggc ttgttctctt ctcagtccaa aaatccacag tatggtctac 300

tgcagaatca aaatgatgtt aacggcagct ggtcgccttc acaagatttt gatagttttg 360

gaaattctct tgggcaaggc caccctggta ccacttcatc taacttccag agttccgccc 420

ttgggaagtt gcctgaccaa agacgaggga gaaatcat 458

<210> 38534

<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E7

<400> 38534

cccacgcgtc cgcggacgcg tgggagaagt ttgacaacat taggcctttt gaaagtggtg 60

gagaatcttc tctggaattt ttctccctta aggcagactg tagccttata gtgtatggtt 120

ctcattcaaa gaagaggccc aacaatctga ttttgggtag aacgtatgac caccacatat 180

atgaccttgt tgaagtagga gttgagaact acaagtcaat ggaatcttat gtttatgata 240

agaagctagc accattactt ggatcgaagc ctttctttgc tttcataggg gaacactttg 300

agagtgctga agagctgaaa catttgaaag aagtgctgct tgatcttttc agaggagagg 360

tcgtagagaa tctgaacctt gctggtgtgg atcggatcta tgtgtgcacg gcaatctctc 420

ccactactgt ttacatgatg cact 444

<210> 38535
<211> 110
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E8

<400> 38535

gcacagacta gttgccagtc atgaactttt tcagtctgat gtaaaattgg gaaagttatg 60

gggaatggtt gaacaaaaag aaaaaactta aagcaaactg gggccttcga 110

<210> 38536
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-E9

<400> 38536

agcgcgtaaa gttacagata tgggatactt ttggtcaaga gcggtttcga actatggcag 60

gcgcctacta caggggtgca atgggaattt tgcttgtcta tgatgttact gatgagtcat 120

ctttcaataa tataagaaac tggattagga acatagagca acatgcttcc gacaatgtga 180

ataaaatttt ggtaggcaac aaagctgaca tggatgaaag caaacgggct gtgccaactt 240

caagagggca ggctcttgct gatgagtatg gcatcaaatt ttttgaaacg agtgcgaaga 300

cgaacctgaa tgtggagcag gttttcttct ccatagcaag agatatcaag caaaggcttg 360

ctgaatctga ttcaaagcca gaggatcgca cgatcagtat caacagacct ganggtggtg 420

aggcttcagc gtcacaaaaa tcagcttgct gcggatcgtg a 461

<210> 38537
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F1

<400> 38537

ctcggataaa tgccgccgta gatttgacct tggatatgca gattatctta gatatcgtgg 60

gatgcgttag tttgaccagg cgatgcagca ccttgaggga aaatatgaat tcatgacatc 120

tgatcactca tatgtatcac ggaagcatga ggaggataag gtgatcatct ttgagagagg 180

agatttggtc ttcgtgttca acttccactg gagcaatagc tattttgact atcgcgttgg 240

ttgtttcaag cctgggaagt acaagattgt tttagattct gacgatggcc ttttcggtgg 300

atttagtcgg cttgatcatg acgctgagta cttcactgct gactggccgc atgacaacag 360

gccgtgttct ttctcggtct atgcacccag cagaacagcc gtcgtatatg cacctgcatg 420

tgcagaggac gaatagggca 440

<210> 38538
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-D6

<400> 38538

cggacgcgtg ggtggagacg caaagagcct ctccctgata gtgcacccaa taagggtaag 60

ctgatgtgct cctactgcaa acatcatact gagtctgaag ttccagatcc ttattatgga 120

ggccctcagg gatttgaaaa ggtgctggac ttattggaag atgcttgcga gtcgctgctt 180

gatagtatcg tcgcaaacaa tgcaagcatt tctgggtgac atcgatgtaa atctccacat 240

acagacatct attttcagac gcaccgaagg ctgtagcatc catgcacaac cggagtaatt 300

tggtttctaa tgcaacattg atcatgtcgt cattacccag gtcttggtct ggtttgtata 360

taccaccatc cttatacctg gttatgtgat aagtgacaaa naaactgctc atcatcactt 420

tnttccacta aagataatca gaaacaatca gaatgaccg 459

<210> 38539
<211> 471
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-C10

<400> 38539

cccacccaga attacactga atatgttggt tgaaagagta catttcgcct tctgaagaga 60

ggatccgcaa aggcactaga taaagttgtt gagttagatg gtaagtctgc catctatatt 120

ttgtccccta tcagtgagat acaaatatga aaaggcatgc tgattttatg gttgcagaaa 180

caaaaaaaga ggcactgatc gttaagacga caatacatga tatcatgaac caaatgattc 240

gggaacttcc aataaccaat ccagtatacc tcatgctaag cacatcattt ggttcctcag 300

ctaaaggaac cgggcttaaa gctcttgaat ttgccctctn catctgtgac agtgttgata 360

tgtatggctt caccgtagac ccaggttaca aggaatggac aaggtacttc tcagaggtaa 420

gaaagggaca cacttcacta catggtagag catattatca gatgatggaa t 471

<210> 38540
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C11

<400> 38540

acttgtgtag agtaggcaga gggatttggc tgagaggtgc tgaaactccc atgggggtgg 60

aatgggagga taggagcatt gaggttcgag aaggatcatg ggcatacatt ggtagtacaa 120

gctctggtgg ttatgctcct ggtaacttca gtttgggcaa taattggctt tcttggagat 180

caccattatt atgataatgg gggctttttg gtcccctttat tgggccaaaa 230

<210> 38541
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C12

<400> 38541

ggaatggaga agatctaccc cctcctgatt ctaaagctat tagggatatc tgcgtgctgg 60

ctggcgggca tgttgttatt gcatcactaa gcaggaagtt ccctttttcat gtctataaag 120

aaagtgtgca agttctattc ttcactgtta tttttgctac atttactgaa atatgacatt 180

cgttcatatg atctactggt aattcttcga cctttcaatt tcacaaaact tgcaactatt 240

tttatgctct gcatcctacc aaaagtatac attgtctttc tactacttag acctaagtat 300

gagcaagtct gttgcatttc tattctttct actacttata catgcactgc attatgtatt 360

taacttttaa gaagatcaag caagtgcttg gtaatcaaag cacttgtttt tgatagagac 420

atgcattctt tttccttaaa ttgattttaa ag 452

<210> 38542
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C3

<400> 38542

cccaggcatc cgcccactca tcctcgggtt tgcgttccac ccacccccctc gcgtctcgag 60

gtaggtttct aatcctcgag ggccgcccca cacaaaccga gctcccaccc gcttctcttt 120

ccgccatcca agaggcccca cccctgatac cacgcttacg gcactgaatt aggagattaa 180

ccatcgccaa gcgaacttac ggcggcactt cttgcaaacg ctcttgacgc ccatcta 237

<210> 38543
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-C4

<400> 38543

cattcatatt ataaggcgcg aatctatcca tctatctaat ctacttacgc acgaacatgc 60

gtaacatcgg catgctgcgg gcgctggtcc tggcgctcgc ggtggccgcc gccgccgccg 120

ccgagaagag gaggacgtac atcgtccaca tggccaagtc ggcgatgccg gccgagtacg 180

cggaccacgc cgagtggtac ggcgcatcgc tgcgctccgt gtccgcctca gcctccgccg 240

ccaagatgct ctacgcgtac gacaccgtcc tgcacggttt ctccgcgcgc ctcacgccgc 300

aggaggccag cgacctggcg tccgccgagg gggtgctcgc cgtcaacccg gaggcgcggt 360

acgagctgca caccacgcgg acgcccgagt tcctgggcat cgncggccag ggactgtccc 420

cgcagtcccg cacggcgggc gacgtcgtcg tccgcgt 457

<210> 38544
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C5

<400> 38544

gaactctacc ccgcagtctc ggccgcggcc atggcggagg acgcccccaa cgccgtcgcc 60

gagggcagcc agcccgcggc ctccgaggga tccgccgacg ccgccctgcc ggctgccgcg 120

ggcgccaagg ccgcggaggc gctgctcccg tcgctcagta tctggccgcc gtcgcagcgc 180

acgcgcgacg ccgtggtgcg ccgcctcgtg cagacgctcg cggcgcccag cgtcctctcc 240

cagcgctacg gtgccgtccc ggagcccgag gccgagcgcg ccgccgtggc cgtcgaggc 299

<210> 38545
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C6

<400> 38545

cggacgcgtg gggaagagcg caagatgttt tgcttcgggc accacggcca ccacggccag 60

aacccgccgg cgcacggcgg cgtgcaccag cccaccttca agatcttctg caaggccgac 120

gaggggtact gcctcaccgt ccgcgacggc aacgtggtgc tggcccccgc caacccgcgc 180

gacgagcacc agcactggta caaggacatg cgcttcagca cccaggtcaa ggacgaggag 240

ggcaaccctg cgttcgccct ggtcaacaag gccactgggc tcgccatcaa gcactccctc 300

ggccagtccc acccggtgaa gctggtgccg ttcaacccgg agtaccagga cgagtcggtg 360

ctgtggacgg agagcggcga cgtgggtaag ggcttccgct gcatccgcat ggtgaacaac 420

a 421

<210> 38546
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C7

<400> 38546

ggttttggag gtgaacctct cctacgtggg acggtacccg tccccgctcg gcgccatgaa 60

cctgaccgcc aacaccctca agggaacgca cttcgagatc cacggtgcag cccaaccaca 120

cgattatggt tgtgaagaac aatattgaag agatacaagg aaaagacagc tatccatgga 180

gccaacaact gctgattttc aatggaaagg tcttgaaaga tgaaagtaca ttgcaagaga 240

ataaagtcaa tgacgatggc tttctagctg tcatgcttag taacgataaa acatctgggt 300

caactggaac tttatattcc cagcactcat acac 334

<210> 38547
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C9

<400> 38547

cccacgcgtc cgaccaaccc agctttcttt tcccagctga tcaggtcgag cacctggtag 60

ggacctgctc gatcatcagt ggagagtgtc ggtaggtgtc tgtctctctt ggtggctggt 120

tgcaacggtc atggcgacgt cgtctcgtcg ggtgcccttg ctgctgctgt gcctgggcgt 180

gctggtgtcc tgctccttcg cggcgggcag cttgcaccag gagctggaca tcacgtgggg 240

cgacgggcgg ggcaaggtcc ttgacaacgg gcggatgctg acgctgtcgc tggaccgcac 300

gtccggctcc gggttccagt tcacgcacga gtaccatgtc ggcatgatc 349

<210> 38548
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-D1

<400> 38548

agacggctag ccggcgcacg gaagcgggct tcggttcgga ggtgagcctc tcctgcgtgg 60

gactgtcccc gcccccgcta ggcgccatga agctgacggt gaagaccctc aagggaacgc 120

acttcgagat ccgggtgcag cccaacgaca cgattatggc tgtgaagaag aatattgaag 180

agatacaagg aaaagacagc tatccatggg gccaacaact gctgattttc aatggaaagg 240

tcttgaaaga tgaaagtaca ttggaagaga ataaagtcaa tgaagatggg tttctaggtg 300

gcatgcttaa taagggtaaa acatctggtt caactggaac ttcatcttcc cagcactcaa 360

acactcctgc aacaaggcaa gcacctnctc tagaggcccc acaacaag 408

<210> 38549
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D10

<400> 38549

cggacgcgtg ggcgcccagc tgctgctgct cgcgccgccg cggtgagacc cgggaggagg 60

gcctggtggt gggcgggccc gatggagtgg gcgtcggcgg cgtacacggc cgcggcgctg 120

gtgtgcgcgg cggcggcgtg cgtggtagcg ctcgcgcaca tctaccgcca cctcctccac 180

tacgccgagc caatctacca gcggttcatc gtccgcatca tattcatggt cccggtatat 240

gctgtgatgt cattcctttc ccttatcctc cctaacaacg cgatatactt taattctatt 300

cgggagattt atgatgcttg ggtcatctac aattttctct cactctgctt ggcatgggtg 360

ggaagtcctg gtgctgtggt ggtaagtttg 390

<210> 38550
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D11

<400> 38550

cttgcacagt ggctcacgaa caaggtgact tacagggact acgaggccat cgtggacccg 60

aagctgccgg agaagccgtc ctccaaggct ctcaagaagg cgctcctggt cgcgctgagg 120

tgcgtggatc ccgactcgca gaaacggccc aagatggggc acgtaatcca catgctcgaa 180

gtcgacgact tcccgtatcg agaggaccgt cgaactcttc ggccgggcaa cggcagcccc 240

ctggagaagg cgaggaatcc ggcggcgggg tcatgcgacg gcagcagctg ctacgggggc 300

gacacgacca ccgcgagcac gccgtccaga ctagtgcagg acatgtagta gtgatgtgtt 360

tgtagccagc tgctgctggc cttctgagct ctgcctgcgg gctgcggagc aacatggaga 420

tggacatgct gcaactctgc tccgtc 446

<210> 38551
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D12

<400> 38551

cattggatgg aatctgtggg ctttatgaat tgaaaattag ggatatcaac ccaatgatcg 60

gaaacataac ttatgacatc agcgacctct ataacttcat tgatggccta gccgacatta 120

gtgcgctggt ttatgatcac tcgattcagg cattcctgcc atatgatcga cagtggataa 180

agcaaaagtt gtttcaacac ctgaagaaat tggctcagcg gtagcacaac tgttgtttgt 240

tctgatgcct tttatccaac aagcaagcat gcgtgacaat aggtgtccaa tcagtggtat 300

tgggagttgt ttcttgtaaa ctttgtaatg ttacatggca gatttgctcc cttgtattct 360

ggatgtttga ctcggatttc attggtggct tgcttgtggt tgtggtatgc taaacttgtt 420

ttgtttcgca gtgctgggaa tcagataacc ctt 453

<210> 38552
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-D2

<400> 38552

gtgcatacag gctccaagag ctaaccgtgt gaggtcatca cggggatcac taaaaagcat 60

acactgtaat tcactagcta ggcaagcatc aagtctgcat tggcaaaaca ttgtcaagtg 120

cctggatcat acactggaaa cgatgaaaga aaactatgta gctccggtga taatcaggaa 180

aacatttaac caagtatttg catacttgaa tgtgcaactc ttcaacagct tgctgcttcg 240

tcgggaatgc tgctctttta gcaatgggga gttcttaaag gctggtttac aagacctgga 300

gcagtggtgc tctaggacaa ctgaagagta tgtatggaca tcctgngatg aactgcaaca 360

cattangcaa gcagttcggt tcctggtttt gcatcagaaa tcacacaaaa tcctggaggg 420

aaatacgaat 430

<210> 38553
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D3

<400> 38553

cccacgcgtc cgatggaatc cattgaaaaa cttgtcccag atttagcatc tctacggggt 60

gggctctgtc cttcttacat ggatgaagac atattctgga agatttactt taggttgctt 120

gagtcaaaca taaatgagca tagttctgag gaagatatcc ggagcgtgcc aaattctgta 180

catcacaaca atgagataga gtctgattct ccacctcacg tctgtgagat agaaagtgtg 240

aaaagcaacc aagaagggta ccaatcttcg gatggtcgtg ctttccccaa gacaagatct 300

gagcgaagca ttgaccaatg ggtatttgca aagtcaaaat ctgaagaaag catggatcag 360

tggtctgaaa taccttcaga tgtggaatcc ttcagagaag gtaaaaggta cctcagtagc 420

gaggagctga gtga 434

<210> 38554
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D4

<400> 38554

cggtcgacca cgcgtccgcc cacgcgtccg accaattgca ttcaaattta tgttctaaat 60

ttagcatcta tactatggga acggtaaaat tcttacttgg ctcaatacat attatggtag 120

atacacttta ggtaactcaa ttcaaaattc aattaccata catctaaaca ataattcctg 180

agcataccaa 190

<210> 38555
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C1

<400> 38555

accaaccccg tcgcgtttcg ggcgtggctt cctactcctc gaggaccgcc gtacaggagc 60

ggagctcccc gccgattctc tctccgcctt ccgagaggcc cgacccctga taccacgctg 120

agggcggtgg tattaggaga ttaccgatgg caaggtggcg gccgtcggcg ctgctggtag 180

tggctctggc ggcggttcta tcggcggcgt ggcgggcgga tgcgctatcg gatacggaga 240

ccgacaccga gtgcatccac gagttcgtgc cctatgaggg caacac 286

<210> 38556
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-D5

<400> 38556

aggggaatcc caagcggaag ggtctcctcg ctctcctatc tccgttatat cagctgcggg 60

gggcggcgat gggggcgcgg aggaggctgc tggcggacac gccgccggag catcgccata 120

ggcagggcgc gccggcgtcg gactggagcg cggggtacct taacgggtgg ctgtcgcagc 180

cgacgccgat cttcggccta cgcctctggg ttctcgtcgg catcgccgtc ggcgccgcca 240

tcgagctcgt gctcctgctc atcttcgtct gcctctccca ccgccgtcga cgccgcggcg 300

gtgacctgct cgccgccaac ctctaccccg ccgccgacac caagctgctc aagcagcacc 360

tncagcacca ggccacgccc accaaggaca tccaggagat tgttcgtcgc cagcaggcgg 420

agacg 425

<210> 38557
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A2

<400> 38557

gagagagaga gagacggaaa gggggagatg agccttagcc tggggatccc ggtgaagttg 60

ctccatgagg cagcgggtca cgtggtgacg gtggagctca agaccggcga agtgtaccgg 120

gggtccatgg tcgagtgcga ggataactgg aattgccagc tcgagaacat taccttcacc 180

gccaaggatg ggaaggtttc gcagctggag cacgtcttca tcagaggaag cagagtgaga 240

attaatgata tacctgatat gctcaagaac gctcccatgt tcaagcgctt g 291

<210> 38558
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A3

<400> 38558

ccggcccacg cgtacgcaag ttacaaggga ggggaaatat gttcattcag atgtcccaaa 60

gcagctgctt tatgggacaa tggtttttgt tcgccagaca atagtcgcag atgcttctaa 120

ggctttgtcc cgtgctgttt gcattgctgt acgatacagc gccatccgaa agcagtttgg 180

ctctcaagat ggtggacctg agactaaggt ccttgattac aagactcaac aaagcagact 240

ctttccgttg ctggcttcag catatgcatt tagatttgtg ggtgactggc tgaagtggct 300

atacatggat gtcactcaga aactggaagc taaagactac tcaacactgc aagaagccca 360

tgcctgtact gctggtttga aggctgtgac aacatctgca acagctgatg ccattgaaga 420

atgtagaaag ctctgtggcg gacatggtta cctgaaca 458

<210> 38559
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A4

<400> 38559

gagcgatccc actcccgatc agcagctgat cgctcactct tgcagctcga tcattcttta 60

gctgctctag ctctagcctc tagccctagc tagtagctag ccactcggtc gtgtagtcat 120

cagccttctg atcgtcaccc atggccactg ccgaggtcca gaccccgacc gtcgtggcga 180

ccgaggaagc gccggtggtg gagaccccgg ctccgcccgc cgtcgtgccc gaggaggctg 240

cccccgccgc cgaggccaag gtggaggagc cagctgcccc ggcggagacc gagccagctg 300

ccgccgctga gcccgaggcg gcccccgtgg cggcggagga agagacgcca aaggaggaag 360

agacggcaaa ggaggcggag ccggagccgg agccggcggc ggctgaagag gtgaaggagg 420

aagcggcagc gcccgctgcc gagacagaag cag 453

<210> 38560
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A6

<400> 38560

cccacgcgtc cgcggactcg tgggctgact gtgtgaaaaa aaaaattaaa taaggaaggt 60

ctaatttaaa aaattgaagt gatatataaa aaaatataaa ataacattat acaaaaaaat 120

agtgcactcc attttaatat tccaagctat cgtcccctag cttactacac ataacatcat 180

ctatttttta acctaatttt atttacttgg ctcattattc ataacattat gatttgcaaa 240

aatcattatt tacctaa 257

<210> 38561
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-A7

<400> 38561

ggagctcttt aatctgtgct agcagcggtt ccagagaatg cggcagatct cgtcgctgct 60

gcagggcctg gcccggtcac tctcggtggg gagggacagg gacagggaca gggaccggaa 120

agggaacggc gcaggcgacc gcaagaccgc cgtgccggcg gtgctgcgga cgtcgggcac 180

cctgtggggc gacggctcgg acacgttcgc cgccgtctgc tcgcggcgcg gcgagaaagg 240

catcaaccag gactgctcca tcgtctggga gggattcggg tgccaggagg gcaccatctt 300

ctgcggcatc ttcgacggcc acgngcccgg gggccactac gtggccaagg tggtgcgcga 360

ctcgctgccg ccgtcgctgc tgtgccactg gcaggaggcg ctcgcgctcg cgtcgctcat 420

cgacgacggc aagaaaaagc tcggcgact 449

<210> 38562
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A8

<400> 38562

ggagctcttt aatctgtgct agcagcgggt ctagagaatg cggcagatct cgtcggtgcg 60

tcagggcctg gccggggcac ggtcggtggg gagggacagg gacagggaca gggaccggaa 120

agggaacggc gcaggcgacc gcaagaccgc cgtgccggcg gtgctgcgga cgtcgggcac 180

cctgtggggc gacggctcgg acacgttcgc cgccgtctgc tcgcggcgcg gcgagaaagg 240

catcaaccag gactgctcca tcgtctggga gggattcggg tgccaggagg gcaccatctt 300

ctgcggcatc ttcgacggcc acggcccgtg gggccactac gtggccaagg tggtgcgcga 360

ctcgctgccg ccgtcgctgc tgtgccactg gcaggaggcg ctcgcgctcg cgttgctcat 420

cgacga 426

<210> 38563
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B1

<400> 38563

tcccacccac acgtacgcgt ccgaaatctc taaattaaaa taaaaatttt aaattttaaa 60

aaaaaaaaaa aaaaaaaaag aaaagctaaa aatcaaaaaa cgccatctct caacaacaac 120

aaaaacataa acatatcaca caaacaacca acgcaccccc tcaccaaaac ccctccatcc 180

caccccatca acccacctac tccttccaaa aaatgcaccc actaaaccca tctcactccc 240

catcacttca cactctctat aaacccaaaa accaacagtt acccaaacac cataaatcac 300

tacaccttcc cttacttccc actttctaca taa 333

<210> 38564
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B11

<400> 38564

cccacgcgtc cgaaaaaaaa aaaaataaat taaaaaaaaa aaaaaaaaaa aaaaaagaaa 60

agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaat aaaaaaataa ataacaacta aaaacaaaaa taatggtaca 180

atgacaactg catatgaaat tacttaaaca cataatatct gatgactgac cctcagccaa 240

tgactgaaaa tttggcaagg ctaacacctt taacatcatt cctaacaaca ccggtgctaa 300

caaagctttt ggaaaagtgc ttcctaatct gaatggcccg ctcactggca tgttctaaaa 360

aattcctact gtggatgtct aaattgaaca cctcactttc agaat 405

<210> 38565
<211> 85
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B12

<400> 38565

gaacatttat actattgagt gattgatttt ttattaaaac aaaaaaaaaa ataaaggtaa 60

ggaaaactaa aacacataaa aatga 85

<210> 38566
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-B2

<400> 38566

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcaca accagaagcc acccattggc 60

gtacgcgagg cgatcggagc atcccgtccc aagaggagaa actccggccg gcgacgcggg 120

ggaaaatggg gaagacgccg gtgcggatga aggcggtggt gtacgcgctg tcgcccttcc 180

agcagaaggt gatgccgggg ctgtggaagg acatcaccac caagatccac cacaaggtca 240

ccgagaactg gatctccgnc acgctcctcc tcacccccgt cgtcggcacc taccaatacg 300

ccatgtggta caaagagcag gagaagcttt cccacagata ctaaatggga tgtcctccaa 360

gttgctgcgg cttgtcgcag ttgaattttc catgatgggt tgtataatct gtcaatgtca 420

tttct 425

<210> 38567
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B3

<400> 38567

gacccacgcg tacgcggatc gtcacccgtg caattgtcaa tactctagtt ttcctccgta 60

ttgccccagc aggcggcatg ggagcctaca acgtgctgat gagtgcctct gatggccttc 120

taaaaggtgg ccgggaaggt atcttcacag cgaccttctt cgtcctgggc cgcaagccta 180

tcaaggaagc tgatatggtg aacggcggcg tcctttgagc tgcaacatta gtatggggtt 240

gtactcataa gagctatgaa tcatggccaa cgtgttctga gctgatgtgt gattactggg 300

ttgtcttatg ggtactgggt tatgaatcat gttcccgcat tagccctgat ctgaatgtgt 360

gctgtgtact atgcgctatc tgaataa 387

<210> 38568
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B4

<400> 38568

cccacgcgta cgcacaattg ttgtggtacg tacacgtggg tgctacgtca gaactaatgg 60

cttgatatat cgtgcaaacc ctgctctaga taaaaaaaaa aacaaataaa aagaaaccaa 120

aaaaaaataa aaaaaaaaaa acttaaaaaa actaaaacaa aaaacctatc aaagaaactg 180

atataagaaa acgaaggcaa actttgaagc atggaacatt agtatgggat tgaactcata 240

agagctatga atcatggcca acgtattctg tgcttaagtg tgtttactgg gttgtcttat 300

tcgttatggg ttatcaatca tgttaccaaa ctaaccacta tctcaatatg tgctgtgtac 360

tatgcactat ctgaataaaa atgcagaatt actcctaaaa aaaagagtcc tctaacaatg 420

acatttctta aattaggttt agtttaaacc att 453

<210> 38569
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B5

<400> 38569

acgcgtgcgg gaagatctcc agagctgaat acagatgctc tcgctccttc tccggtgagc 60

tgaaggacct gcttttcaga atgctcgatc cagatcccag taccaggata tccatttcaa 120

ggatcaagag aagcacttgg tacagaaaac ctatcgaggc aaacgcggca aagatcaagc 180

acggcacagc aagagacacc accgtgcgtg acggtgaagc cgccacggcc tctagctcga 240

tagagtgcag taaccgggca gaggaagacc aagggtcgtc gagccttcct aacctgaacg 300

cattcgacat catttctctc tcgactgggt ttgacctatc taaccttgtc gaagaaagac 360

acgggcggaa gg 372

<210> 38570
<211> 342
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-B6

<400> 38570

gggtggtcag gtggctggag tgtgagggct atattgagac aaacttcagg atgaagtttg 60

ttacatggtt tagcttacgt gccaccctgc aagagagaaa gatagttagc gtatatgtgg 120

atactcttat cgaggaccct gtcagtctct ctggccagct cgtcgacagc ttctcggaga 180

ggatatatag canaaagcgg acttccatgc cttctggttt ctgcatggat ctgtggcatt 240

aaggaactgc agggtcttac cgttcgcttt gtagggagca tattcggccc attcttttgt 300

tgcagatcgt tgcattgatt cttcattgga aatttagctg aa 342

<210> 38571
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B7

<400> 38571

tacacctacg cgtatcgaga gcccatgctg actcaatgcg gtcacttctt ctgctggctg 60

tgccagtagg cgtcgtttga cattactgcg cattcatcag agcgtctaat gtgcaaggct 120

cttgtggacg aagacaatct tgtacccctt tattgacgcg gcaaggatcg tgttgaccca 180

aaggcaaatg acatgcccaa cggtgacatt ccttaa 216

<210> 38572
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A12

<400> 38572

gtcagcattc aggttggagc tcaggttgtg tattctaagt acgctggaac cgaggtcgcg 60

ttgaacgatc acagccatct ggttctcaaa gaggatgacg ttataggtat cttagaaact 120

gatgacgtga aagacatgaa gcctctgaac gaccgtgttc taatcaaggt tgctgaagct 180

gaagacaaaa ctccaggagg cctactgctt acggaaactg ccaaggagaa gccatctatc 240

ggaacggtcg tagcggttgg cccaggcccc ctggacgagg acggcgagag gctcgcgctg 300

tccgtctccg cggggagcac tgtcctgtac tccaagtacg ccggca 346

<210> 38573
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B9

<400> 38573

cagtactata gcagagatgc ttcccactgt atcactgatc gttgatcagt gttccaatat 60

tttggcaagt gcagctttga ataaattgaa cagattggcc tcgtggccat tttcctgtat 120

ttatctgtag tcaggtccaa ttcttttctg ttggtgagcg caagttattc atagatgact 180

cggtcatggg aatatttgta atattatgtc atgtatcgtt aaatttcagt tgttttgttt 240

cagctgccag aactgttagc aagagtattc tggagctgga agctcgaacg caactggttg 300

tatctatatc cgtgaatgcc gaataaagga ggggcaataa actgcagcga aatatgtgct 360

gtcagacatt gttg 374

<210> 38574
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-G4

<400> 38574

acccacgcga tgcgtccacg cgtccggacg agatgctccc ctatcgttcg gaggatgaca 60

tggagttggt tgaaggaggt gcttgtccac aagagcacaa ctgctggctt caggaacagg 120

atggggcaca acagggcacg aggggaacaa gaggacgggt acaggcaccg ccgtggaggt 180

catcaagggt ggcgagacag tgacacaaat gacagaccaa agaggaggag gtactgacct 240

actgcactca cagcttgacc ggctaatgaa gacgacgtc 279

<210> 38575
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-G5

<400> 38575

cccacgcgtc cgcccacgcg tccgctcact cgtccgccca cgcgtccgaa caaactggtg 60

cggagggaaa gattgtgagc aaggtctact tgtgtgagaa actgtctctc actaatgaga 120

tgtattttgc cattaccctt gataggaaaa ctgctggtcc gctcattatt gcttgcagca 180

agggaggaac cagtattgaa gatcttgcgg agaagtatcc tgatatgatt atcaaggttc 240

ctgttgatgt atttaaagga ataacagacg aggatgcagc taaagttggt gatggtctag 300

ctctaaagtc agcggatagg cagtcttcta tagaacagat taagaaactg tatgaacttt 360

tctgcaagtc tgattgcaca tt 382

<210> 38576
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-G6

<400> 38576

cacacacccc acctacctac ctagctagct ggagtaggaa gccggccagc aaggaaggaa 60

tacctcgtgg caatttcgtc ccctcctctc ttggattctt ccatggagga gcaaggtgag 120

cgacacatcc agcttcagct actgctcctc cctgcgcctg caggtcatca tcaagtcctg 180

cgtgacgtac cggcggcggt gccagccagc gccgtggagc ccccccagct ggaccttgat 240

ctgaccatga acattgggcc caggccggat tcaacgggcc aaacac 286

<210> 38577
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-G7

<400> 38577

agaccggagg agcccactcc tgcatgtaac tcagatactc cacccgagag tccgcaccaa 60

gttacattac accttaactt tcacttcaga agaagaaagc cgaaccggat tcccagaagc 120

cttgttcctt gggttcttct tccgtgggcc gttgggccgc cggccggggt tgttgggcca 180

aaacccgaat gatttctggg aacatgtgtt caccggggct gaccgcaatg gggcctttgt 240

ccgtggccat gttcctgggg tacgggtcgg tccggtgggg gggcatttta acggggga 298

<210> 38578
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-G9

<400> 38578

ttcttttctc ctttcccttt tatcagttgt aggcgcactt gcacaccctt acttggcatg 60

acttcatgac ataagtgatg agccaggctg ctcaatgccc ttcagctttg acttcgagca 120

gcatgcattg tctgaagaac aaatgaagga tcttatctac caagaggctc ttgcattcaa 180

ccctgattat cagtagccaa agttcaattt cagccggtga ttggcttcat tgacatggag 240

atttttttccc cacctgatgt cagtgcaaaa agtcaccaac tccgattgct agctgtaaat 300

aactgcctta cctgaagata ctccattcct ctgattaaaa gctggtgacg gtgtcattaa 360

gggtagaaaa gaacgagctt gtgaaagtca aatttctgcg aagccatgga tttctgtgct 420

tacaaatat 429

<210> 38579
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H1

<400> 38579

gagaagattg acgtctattc gtttggaatt gtcatgtggg agctgcttac tggggaagag 60

ccatactctg atatgtgtgc tgctgaaatt attggggcca ttgtaaacga ttccctatgc 120

cctcaaatcc cttcatggcg tgatcctgag tggaagggat tgatggaaag ctgttggtcc 180

agtgatccag ccgagagacc gtccttcact gatatatctc aaaggttgag gaaaatggcc 240

gctgcaatga atgtgaagtg aaggttcgga agccatattt gtcttgattt tcttagtccc 300

agctgtcatt tgccttgtgt cgaaaataac tatgctactg gtgctggggt tgcatttcac 360

cataccattg tacaagaagg tggtgttagc gacttagtac tacgatatgc tcaattt 417

<210> 38580
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H11

<400> 38580

gtagagagaa ggaaaaatat ccccaaacct tagctcccga tctcgatggc gaaccctcgc 60

gtcttcttcg acatgaccgt cggcggcgcc ccggcgggcc ggatcgtgat ggagctgtac 120

gccaacgagg tgcccaagac cgcggagaac ttccgcgcgc tgtgcacggg cgagaagggc 180

gtgggcaagt ccgggaagcc gctccactac aagggctcca ccttgcaccg cgtcatcccc 240

gagttcatgt gccagggcgg cgacttcacc cgcggcaacg gcaccggcgg cgagtccatc 300

tactgcgaga agttccacga cgagaagttc gtgcgcaagc acactcgccc cagtgtgctc 360

tccatggcca acgccgggcc caacaccaac ggcttccagt 400

<210> 38581
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-H2

<400> 38581

ctgccaggtc tccctgtccc cggctctctt gcttgctgtt ccagtcctcg cgcgcgagag 60

cgccgccccg tgtgggccct agatcccgat ggcctcgcgc cgtcgcaccc tgctcaaggt 120

catcatcctc ggcgatagtg gggttgggaa gacttccttg atgaaccaat atgtgaacaa 180

gaagttcagc gatcagtaca aggctacgat cggcgcggat ttcctcacca aggaagtgca 240

gttcgaggac aggctcttca ctctgcanat atgggacact gctggccagg aaaggtttca 300

gagtctcggc gttgcattct accggggagc agatnngtgg ggcccagtct atgaaggtca 360

ttctatgaaa tcatttgaca accttgacaa c 391

<210> 38582
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H4

<400> 38582

cccacgcgtc cgggaagaaa gacgtagaat attggatggg ttcagattaa aaaggcagtg 60

aagctcgatg gatgcgtgtg atgattatat aaaggacatt ataaatcaat gggagcaaag 120

gaaaggaaag gaaaggaaag ggagaaaatt tcatatagca attgtttcgc gtataggagg 180

gagaacaaag gtcgcgtctc gaaagttctt gccttgttgg gaagggatgg cgtcggaggt 240

ggaggacgac gcggcggtgc cgggcgcgcc gctggtcgcc aatggtgcag ccgacgtccg 300

ccggaggaag gatcaggcga aagcgattt 329

<210> 38583
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H5

<400> 38583

ggaaggggtg gcaccattgg tctttgccac gccttaccac gtgcagctgt gggccgtctc 60

tcgccagttg cagtgagcgt caatgacgac agagctgcag ttcaatgcat tgcggaacaa 120

agatttgtcc gtgaagtgac tatacagtac aatctgtgca atgagccatg gttgaaatat 180

agtataaaca ttgtggcaga taagggattg aaaaagtctc tttatacttc tgctagactg 240

aagaaaggag aagtcatata tttagaaaca cacattaata gtttaaacag gtatgagctt 300

tgctttagtg gagacaagcc ttgcattatt ggatcaagct gcaatgcatc tgaatcagaa 360

cagagaaaca ccatagcggg agtcaccatt ctcagaatgg tga 403

<210> 38584
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-H7

<400> 38584

gttctcgtga gaacattctt tctggtgttt ctgatggaca gatcaacttg cttcatgaga 60

ggcagcgtcg tcgtcgtgtg aggtcaagca aagaacccat tgagatgaat ctcaaccaca 120

tagaccactc aaatcttcag cttgataata ctagtgacct tggaggttta aaaccaaaca 180

agttacctca ttggcttcag gaggctgtac gtgctccttc atctaagcca cctgaacgtg 240

agctaccagc aacagtttcg gcaattgctc aatcggtgtg ccttcttctt ggagaacaag 300

aaccatcaat acctncattc ttgatcccgg gaacccctct ttcttgccca aaagatccaa 360

tgattaattc aaaagagaaa cttcgcaag 389

<210> 38585
<211> 74
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H8

<400> 38585

cgccgccttc gcggaccgcc gccgttccgt tgctgcgaaa gtctcgtcgc cctcgggcat 60

tggcaccggc atgc 74

<210> 38586
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H9

<400> 38586

cccacgcgtc cggttctacg tccgagtcgt cgcatcaggt cccctcgatt cgccggcggc 60

ggcgccacca accaagctca tacatctgaa ttgactagtc caactcaggg atttctttgg 120

ggaccaatca aactcaagaa ctaagtttca tgtctgatct cgacgtccag cttccatctg 180

cttttgatcc gtttgcagag gcaaatgctg aggactccag tgctggtgct ggatcaaagg 240

actatgtgca cgtgcgtatt cagcagcgca acggaaggaa gagtctgaca actgttcaag 300

gcttgaagaa agagtacagc tacaacaaga tcctcaagga tctcaaaaaa gagttctgct 360

gcaatggtac tgtagtccag gatccagagc taggccaggt cattcaac 408

<210> 38587
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-A1

<400> 38587

ggagacgacg cgagcggcga gaacggcgac gctctgccag cggtggcgaa gacgccaaag 60

aggaggacga cgctgcagag ccagctgagc aagtttgagg acgaggacag cgagaaggca 120

agagcagccg cggatgcgat gagtcctgtg caagatggat tgttgataag aaaaccgcca 180

gacatgaggt ttccatcaag aagaaatgtg cctatgtctg ctgatccagt gggccatctc 240

cacaatggca gcagtttcga tgccgtctca gtgtcgggtt cagatggaag ttctgggcga 300

tatacccccа aaattagcgc aagcacacac aactcatttc ttcaggatag tagcaatgct 360

ctctcgccat ttgccaacaa tcgcaccgtg aggaacccat tgaccagttc tggtgactgg 420

tcangaagct cagctcctga tgctagtacg gatgg 455

<210> 38588
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-A10

<400> 38588

cttgagagga tctatgaatc ggaccgcttg taggaagagg tagagctgct tgctacatcc 60

gccatgcatg aattccagtc caacaatacc ggaagctatc tggatgtctt caagtcgaaa 120

gaattgaggc tagctttctt tgctggggct ggtcttcagg ccttccagca atttaccggg 180

atcaacaccg tgatgtatta cagccccacg atagtccaga tggctggttt ctcctccaac 240

aggctggcct tgctcctctc cctgatcgtg gcggccatga acgccgncgg aaccatc 297

<210> 38589
<211> 322
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-G3

<400> 38589

cgacaccaac ccagcggcga tccgggcctt tctctcccgc ctcctcgaca ccacccggcg 60

cgcgctgtcg ggcgcccgcc cctggtccga gctcgcggac cgctcggctc tctcccgccc 120

ggagtccctc gccgaggcca cgtnccgctt gcgcaagaac ctggcctact tccgcgtcaa 180

ctacgccgnc gtggccgcgc tgtgcctcgc cgcggcgctc ctggcgcacc ccttctccct 240

ggccgcgctg ctggcgctgc tcgccgactg gtgcctcctc tacgtgctcc agcccgncga 300

cgcgcccccc gtctccgcgt tc 322

<210> 38590
<211> 485
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-A11

<400> 38590

gacccacgcg tccgtttgtg ttttcatgtg cttcaaggtg ctaggtaaga atgcagacga 60

ggaaaccata aagagaacct acagccaagt tctatcaccc tgatggccca gaactcatgt 120

tttgctaagt cttctccacc taagtcctca aaaatttgaa caaggccata ttatcagata 180

aaagcagatg tagctttcat aggacttagt tccagcaaag caaaggttga cattgcacca 240

aacaatagcg tctatacttc attcttatgg cttggagaag cctatgcaac atgacaagcc 300

agatgacatg tagatgagaa ggttctgcat caagagaaac caaagcaaaa tctttgcatc 360

aagagagcac cgatgaaaag ctgatgtaga ggccagttga caaacttatg gaagaccagc 420

tgaccaaata atngaaaatc tattgaacta tgtatcaagt tcattaattt gtgtaattct 480

gaatg 485

<210> 38591
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F1

<400> 38591

gaacttacca aatatgatgt tgtgcttact acatattcta tagtaagcat ggaagtacca 60

aaacaatcaa atcctgatag tgatggagaa gagaaaggga agcctgaccc gtatggtgca 120

cctgtgtcct cttcagggag caaaaagaga aaggcatcct cttctaagaa aacaaaaaat 180

aaaagtgttg cagagagttg cttgcctgaa aaacctcttg cgaaagttgc ttggtttagg 240

gttattcttg atgaagcaca aagcattaag aactaccgaa ctcaggttgc cagggcttgc 300

tggggtttgc gagccaaaag aagatggtgt ttgtctggga cacctataca gaatgctgtt 360

gaggatctct atagctactt cagatttctc agatacaatc cttacgctgt atataagcag 420

ttttgcactc tga 433

<210> 38592
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-F10

<400> 38592

cccacgcgtc cggcacaagc atagtgcatg ggcttggcac ctaagtaagg cctgagagcc 60

atggcatcca aggccgtcct cttcttggct ctcaacctcc tgttcttcac ggtggccaac 120

gcctgcggca gctgcccgac cccaacgccc ccggtcgagc caccgccgcc gcctcctgct 180

gctaccccac ccccttcgtc cagcggcaag tgcccgctga acgcgctcaa gttcggcgtg 240

tgcgccgatg tgctcggcct cgtcaaaggc gaggttggca aggtgcctgc cgagccgtgc 300

tgtaccctca tcaaaggcct tgcggacttc gaggccgncg tctgcctctg cacggccatc 360

aaggccaacg tgctcggcgt cgtcatcgat gtccccatca agctcagcgc cctcgtcaac 420

tact 424

<210> 38593
<211> 79
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F11

<400> 38593

cccacgcgtc cgtcacatgc atagagcaat ttcttttcac gtacatacgg acttacagcg 60

acaggatcaa ataacgcac 79

<210> 38594
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F12

<400> 38594

cgggatctcg catggtgggt tcctgacaac acatctcatc ggtcaggctc cggacaggtt 60

cgccgtggca gctgctcgga accctgtctg caacctgtcg ctgatggccg gcaccaccga 120

catcccggac tggtgttacg tagtggcctg cggaacccaa gcgaagcgat acgcctctga 180

agcgccttcg cccgaccatc ttcgtctctt ctaccagaga tcgccgatcg cccatgtctc 240

taaagtcaaa gcgccccttc ttatgcttct tggcggagct gaccttcgag tgcctgcttc 300

taatggccta cagtacgcaa ggagcctaat agaaagagga ggcgatgtca aaatcatgat 360

gttcccagag gacatacacg aaatcaattt accgcggtcc gatttcg 407

<210> 38595
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F2

<400> 38595

cccacgcgtc cggagagggt caagttggtg gacttgcacc ccacggaggc atggatgttg 60

agcctgtact cgaggagtgc ctgcatccgg gattatcaca cacagtcaat ttgtaggaga 120

ggggacgcca tacatcaaag atgactaaag aagaggaaga tgaagaatac ctcgaagagg 180

aagaagatgc ccttgctggt gcaggggga acacatttag tttcacaacc ttcatgctct 240

taacccctct gatcctgggg cgtggcagat tagactccga tggggaagtc actagcgagg 300

tggatcaagt tcgtgctctt caggaagaag tcgtca 336

<210> 38596
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F3

<400> 38596

gccgcccttt cttggatatt ggagttagct ccattaaact ggtatatctt attttcagcg 60

tctaagacaa acacatcatc atggtttaat gatgaccggg caaagggaac ctctttaacc 120

cgaatagctc tcttccctct gcaaatatac aaccgtgttt caaacttctc ctcttcaggc 180

tttttgaacc cagaggcgaa accaccctcc aaaggtataa tgcaaggctt gaagtatgac 240

aagaatttgt cagattcata accttggagt tccctatgtt ggattgcacg acccccaagg 300

atggcatcaa gttcaactgt cttgattgct gcagtcccag cttcatcctg caatacaaac 360

agtcacaagg aaggctagaa ctagtacaca taataaaaca gaatttaagt tcacaagtgt 420

gtacttgact cggatctttc ccaatccaga agtggatatc atatagat 468

<210> 38597
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F5

<400> 38597

cccacgcgtc cggcatcatg tcagaaatgc tgtcgagagt ttggtttact tgatgttgcc 60

tctgagatgc ctgtgcggaa ttttgaggta attggttcat gggagacaag ctcctcgtct 120

caagtttctt ccatggtaac cttccaagta caggatggta gggtgacatg tgataggtgc 180

aagattgcgt ctttgtcaat accattttgc tccatgctta atggaccgtt caatgagtca 240

cagcttgagc ttgttgattt gtcagagaat ggtatttcgt tggagggcat gagagctgtt 300

tctgagttta gttctacatg tagtttaggg gatcttcctg tggaaatctt attggagatc 360

ctggtgtttg caaacacatt ttgttgtgac aggctaaaag atgcttgtga taggaaactg 420

gcttcatttg tttcaacaag gcaagatgc 449

<210> 38598
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F6

<400> 38598

cacaaacaac acccggcggc caaactagtt tagagcgctg actgctccac cctccttgct 60

gcttcgctcg ccttggtgga caccgcaggc cgcagcgcgt agcttgtaac gtttccggag 120

gccgacatgg agcgtggccg cagcagcacc tcttcctctt gccggtcctt gctgctcctc 180

ctactcctcc tagtctgctt ctcccacggc gcggcggtgg cggcagcggc tgctcggctt 240

ctgactacac ctgaagcagc tgctggcgat cctcctctgg ctcttcgcca agcggagagt 300

aatggcgcca cggcggcagc tgccgacgac ggcctcgtga tgactgaaga aagtgacgct 360

gacgccacga g 371

<210> 38599
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F7

<400> 38599

cccacgcgtc cgatgaagtg aagcatttct ttgagggaac atgtggtgaa gtttctcgtg 60

tgaggctact tggtgattat gtgcactcca catgcatcgc ttttgttgag tttgtccaag 120

cagatagtgc tattctcgct ctgaactgca gtggcattgt tcttggaacg cttcctgtta 180

gggtgagccc atcaaagaca ccagtccgct cgcgatcgcc ccgtgtgacg tcatactgaa 240

ttcggctcat ctgaagccgt cgtccagggc agcaaatttc tgggcaacaa agccctagtc 300

gtgtggcctt agagactgcc gcatcgcgga taagtaattg tcgttgagca gagttctcgt 360

tggttaaagt ccagtctagt aggaggcgca gagacccgtc tgtattgtcg ctgggaagat 420

cta 423

<210> 38600
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F8

<400> 38600

gtaggtttga ccagctccca gattttcata tggagacgca gtgaaccaag aagcagtatg 60

gaatctggtg gagcctcatt caatcatggg ttatgcatga ggtgtggatt ctgtttttat 120

tattagttaa ggtagaagag ctgaaccata caaacaacac acttgcaagc ctataggaga 180

tcaataggaa ggcagccgga ggttagacca ttctagcata cgaaaagaag ttccagtatt 240

acaagaatgg tatgcaacta agatatgcac 270

<210> 38601
<211> 401

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F9

<400> 38601

cccacgcgtc cgcccacgcg tccgctctct ctctattcgt tccccgcctc accccgagcc 60

agccgtctcg ctagggtttc gccgccgccg ccgccgccgc cgccgctatg cctcgccgca 120

gctcaggaag gtctgcccca cgcccagctc cccgtgctgc tccagtgagg aacccgccac 180

agccagcacg ccaggctcct actacagctc ctgttcgaga tggtggtggc tccatgtttg 240

gaggaattgg gtccaccatt gctcaaggta tggcgtttgg cacgggtagt gccatggcac 300

acagggctgt tgatgctgta ttagggcccc ggaccattca gcatgagact gttgcctcag 360

aagctgctgc tgctgcccct gccctgcagt gatgaatgct g 401

<210> 38602
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-G1

<400> 38602

gagatccgaa attcagaagc gaggatggct acgaccgcga ctaggcggtg gtggaggcgg 60

cacgaaggcg gcgacgatga cccagacgac ctcgtcccca tggacaccca agagcaagaa 120

gagctggtcc ggtctctgga ggctaagcag gcgcagcaag gccgccgttg gaggcgcgtc 180

ttcgcggggt tcctcctagg ttacgcggcc ttccttgtct actccagttt ccatcatgct 240

tggtctccct gggagctgcg gtaccatgct tacttcatgg aagatttgcc tgcaccaatg 300

gtcataattg caggtttggt atttccttca actatttagt ttgagtttgc aaagttgtaa 360

acaaatcatg tgttgatgct tctaactgaa ttattntgga tct 403

<210> 38603
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-G10

<400> 38603

ctccactcat cttttcgcgt ttagaacctt taaaatttcc cccactcgcc agtcgcagca 60

gcacctgtag ccatggacgc cagcggagcc ggtagcaagg ggaagaaggg tgcggccggg 120

cgcaaggcag gcggccccag gaagaagtcg gtgacgcggt ccgtcaaggc cgggctgcag 180

ttccccgtcg gccggatcgg gcgctacctg aagaagggcc ggtacgcgca gcgcgtgggc 240

actggcgccc ccgtctacct cgccgncgtc ctggagtacc tcgccgccga ggttctggag 300

ttggcaggga acgcggcgaa agacaacatg aagacgcgca tcatcccgcg ccacgtgctc 360

ctggcgatcc gcaacgacga ggagctcggg aagctgctgg caggcgtcac catcgcgcac 420

<210> 38604
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-G11

<400> 38604

gagcaaaaac atttcagtct cgttatggca taattataca catgtttcat tgagattaat 60

gtattttcac tgtagtttaa caatcgcaat ctgctgccac tatccatcat gcagcaacaa 120

caaagccttt gtcagtggcg aaagcaggac agaaatttaa gtgggaccaa acaaaatcgc 180

aaagcaacta gacaagaccg tgaaactgat ctctggtgga tgtggacgca ctaaacatgg 240

aaatggctca ctatgagtgg cattntacca tgaaatagtg aaaaggataa tgagaaagaa 300

agcactcatg tcgaagtgtt tgagcagact agttgtggta actatatctc gtctagcaac 360

cataccagta aaatcatgaa atgttgatgg ctgataagaa ttgtggtgca cctttacaat 420

caat 424

<210> 38605
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-G2

<400> 38605

aagatatgaa cgtggcatta gtccttgatt aagggcttgc ctctccaggg gaggagtacc 60

gtgtgttcta tgcagagcgt agcccttggt ggcttactat aaaagcaacg ggcgcaccag 120

ggcacggtgc gaagttgtat gatggtagtg caatggagaa tttgatgaag agcgtggagg 180

ctattaggag attcaggaca tcacagtttg atctagtgaa atctggagag aaggctgaag 240

gagatgttgt atcggtgaat tttgcgtacc tgaaggctgg cacacctaca ccaacgggtt 300

ttgtcatgaa tcttcaacca tctgaagcaa aggtaggtct tgacatccgg atccctncta 360

atgcccatgt ggaagcac 378

<210> 38606
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E9

<400> 38606

cgttctcttc cccatcctcc tcctcgtcat ctccagtcgt cttcagccct tcaccacagg 60

caggcccacc tcccaccacc acatttcttc tcatccaacc gccccgtagg atcacagaga 120

aggggggatgg cgagcggcgg ggcggtgagg gatgtgggct cgcctgcgga gctggaggcg 180

gcggtggccg gggcgcgggc ggcggccgtg cacttctggg cgtcctggtg cgaggcgtcc 240

aagcagatgg acgaggtctt cgcgcacctc gccgtcgact tcccccacgc 290

<210> 38607
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D12

<400> 38607

cccacacgtg cggaagaagc agaactcaat atgctgagaa agagtttgaa cttcaaggca 60

acaccaatgc caagcttcta tactgaacca actgctgtca aggttgaatt gacaaagata 120

cccccaacaa gagccaaatc gccaaagatt ggccggtcta aaaacaagtc cacaccatat 180

actgacgaaa atgctaccgc agaccagact gcccacctga acctcgatga gaatgttgct 240

caaaccggag tgaaaaaacc aaccccgttg aatccaccaa agaag 285

<210> 38608
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D3

<400> 38608

cgaagaagcc ccaagcaagc gacactcttg tcctctccgc gccagatcgt tgtttatgag 60

ctcgaaggag aagcccactc ttggaggcac gcggattaag acccgcaagc ggaacattgc 120

agctcctttg gaccctgcat cattctctga tgcaattgtc cagatttatc tggataatgg 180

tggagatctg gaactcgtcg ccaaaagtat tgagtcttcc gacctcaact tctcacgtta 240

cggtgacacc ttttttgagg tggtttttgt tggaggacgc actcagcctg gcactgtaaa 300

acctgaagaa ggagaccgtc acccttattc tatgttagat tgtgtggcac agcgtgaaac 360

aattttgcct ttcgtactct atatccagaa aacattgcgc aggaagcctt tcttaataaa 420

aa 422

<210> 38609
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D4

<400> 38609

gcttttgctt tgctcaccag acaaacagct gcttatggcg tcgacgatca tggccgtcag 60

ctggcgcatc gtcgcggcca agacgccgtt tcttggccag ggtcgcgccg ccgccgacgt 120

cgccaatgcc agccccctcc gcgacgtcgc cgccgccgct gctggcggcc ggatcaccat 180

gggcaacgac ctgtggtacg gcccggaccg cgtcaagtac cttggcccct tctgccgcca 240

gacgccctcg tacctgaccg gcgagttccc cggcgactac ggctgggaca ccgtcgggct 300

gtccgcggac ccggaggcgt tcgcgcggaa cagggcgctg gaggtgatcc acgggcggtg 360

ggcgatgctg ggtgcgctgg gctgcatcac cccggaggtg ctggagaaag tggtgcgcgt 420

ggact 425

<210> 38610
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D6

<400> 38610

ctccgctttt actagatcat cagtagccat ctcaggagcc gagcctggtc agggtagcca 60

agcccatccc ggtcctctcc cggcgtcttc tccctccgca ccgcggctcc ggcgatggcg 120

ggcgtcggct ccgcgctgcg tcggctctac ctctccgtct acaactgggt cgtcttcttc 180

ggatgggcgc aggtgctgta ctacgcggtc ctgacgctgc gtttgagcgg gcacaaggcc 240

ggctatgccg ccgtcgagag gccggtgcag ttcgcgcaga cagccggcat catggagatc 300

gttcatgggc tcgtagggct ggtgaggtct ccggtctctg gaactcttgc acagattgga 360

tccaagttga tgcttacgtg gggtggcttg tggagttttc ctgagaccca gtcacacctt 420

cttggtacta ccctggtcat aagctggtct a 451

<210> 38611
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D7

<400> 38611

gtttcaagaa ggatgacaag cagctggatg ctgatatcca tcgcaagtac atctatggtg 60

gccatgttgc tgactacatg aggaacctcg ctgaagagga gccagagaag taccagtctc 120

acttcagtga gtacattaag aagggaattg aggctgatga catggaagct ctgtacaaga 180

aggtccatgc tgccatccgt gctgatcctt ctgtggtcaa gtcaaccaag cagccaccaa 240

aggagcacaa gaggtacaac cccaagaaac tgacatacga acagaggaag gccagtctca 300

ttgaaaggct caaccaactc aactcctcgg gcggcgcaga tgacgacgat gaggatgacg 360

agtaaagttt ggtcccatcg aagtagtgct atcttatgcg gcgatcagt 409

<210> 38612
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D8

<400> 38612

cggacgcgtg gggcttaaat aaggcatcat ctaaggcaga tgagggctcc tccattttat 60

gctcactttc cctatccatg gtggcaacga agcttaatct ttctggttca gatattgtag 120

atgatgaacc actgtctctc tctcttgggc tccctagtgt tgtcggtggg agagcagatc 180

aggagatgaa gcaattcctg ccggagaagc caggcataaa cacttaatgc ccctttagat 240

ttgcgagtgt acagttttgt gcagctgtat tgagtttaga cagggttgaa gtatggtata 300

gctgataaat tatggatatt tttcattttt tttcaaaaaa aaaaactttt aaaaagg 357

<210> 38613
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D9

<400> 38613

cccacgcgtc cgggtgaagc agctccaggt ggaggctgcc gcctcttaaa agtctcttaa 60

tagtgttgcc aaacagctat ttgtcagatg agctttgtgc catttcctca ttagaagtat 120

atcattcgat ccattgggga tctgtgaacc atgtacctgt ttatgtaact ttttttttt 180

tcgaaagagc gcaggaggac tgcgcaccca tatattaaag tagagggaaa ataaagggcc 240

ataatgatga tatccatcta tctatctatg taactggttt atgtaccatg tacctgttta 300

tgtaactggt taccagtgtt atccatct 328

<210> 38614
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E1

<400> 38614

cccacgcgtc cgcaccagga ttcccttcat ggttcaaggg agttctgcac ggagatagag 60

ctactatcaa gattgcatca tcgcaatttg gtttcattgg ttggctattg cgatgaagag 120

gatgagcaga tgctggttta tgaattcatg tcaaatggca ctttacgtga tcatctttct 180

gccaagtcca agagacctct aagttttggt ttgaggttga aaatcgcatt gggtgctgca 240

aagggaattt tgtatctaca tactgaagca gatccaccta tattccaccg tgatgttaag 300

gccagcaaca ttctgttgga ctccaaattc gttgcaaagg tagccgattt tggtctctcg 360

aggcttgctc cagtgccaga tgtcga 386

<210> 38615
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E10

<400> 38615

tgatgctgtt gcagcatgcc gcgctctagt caatcttctt gaagatcaac caactgaaga 60

gatgaaagtg gtagcaatat gtgccttaca gaatctagtc atgtacagcc gagcaaataa 120

gagagcaatt gcagaatccg gtggtgttca ggtcctgctg gatcttatca gttcaagcaa 180

tcctgacact tctgttcggg ctgcaatgtt tgtcaaactt ctattcaata accatactat 240

ccaagagtat gcaaccagtg aaacagtcag agttataact gcttctattg aaaaagatat 300

atgggcttct ggaagtgctt ac 322

<210> 38616
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E11

<400> 38616

gaccgacgcg tccggaggct gttgcaatat gcctcgctct agtcaatttt cttgaagatc 60

aaccaactgc agggaggcgt gtgttagaac tatgtgccgt acataatcta gtcatgtaca 120

gccagcgcag attagagagc aattgcagaa tccggtcgtg tacaggtgct gctggatctg 180

atcagctcaa gcaatcctga cacttgtctt cggcctgcaa cgttcgccaa acttctattc 240

agtagccata ctatacacga gtatgcaacc agtgcaacag cctgagctat aactgctcct 300

attgaaaatg atttatggtc gtaccgaaag tactaacgag gagtatctca gagcactcaa 360

tgctctgctg aataacttcc gtcgtctgag ggtcactg 398

<210> 38617
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E2

<400> 38617

aaaagagcga acacgagcac gaacacaagt gcagagcagc caagcgccac acacacgccg 60

acgcgaacca accaaccagc tggtagtagg ttcgccgcgc tgacgatgat gcctcgccgc 120

gcccttctct tcgccgcggt gctcctcgcg gcctccgccg ccgcggtctc cgggttccac 180

ctgggagggg acgagagcgg tctcgtgagg ggtgtgctcg ccgcgctccg ggagggaacc 240

gaagcccagg acgccgctcg cttcgccgtc ggccactaca acaagaacca gggcgccgct 300

ttggagttta ctagggtgct caaatccaag cggcaggtgg tgaccgggac cctgcatgac 360

ctgatactgg aggcagctga tgctggaaaa aagagt 396

<210> 38618
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E3

<400> 38618

aaacaagggc atgttcaggc tgtcattgtt ggtgctgatc gaatagcagc aaatggtaaa 60

tgtccacatc atttctgtga tcaatgtata actaaatatt cctactgtta aatttgtttc 120

ctttatgaaa ttgcaaggtg acacagccaa caagattggc acatataacc tcgccatctc 180

cgcgaagcat catagcgtcc aggtctatgt ggcagcgccg gtaacttcca ttgatctctc 240

cctcccatct ggggatgaga tagtcataga agaaagatca ccaaaggagt tgctgaactc 300

tgaaggtggt ctgggaaagc aagttgctgc atccggtata tcagtctgga acccagcttt 360

cgatgttact ccagcaaatc tgatcactgc aatcataaca gaaaaaggtg tgatcacaaa 420

aactgatgc 429

<210> 38619
<211> 394

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-E4

<400> 38619

tcggcctgtt tatgtcaagg acgacttctt tgttttcctc tctagtggaa cgtttggacg 60

tggagggcca aatggaaggg gaagaccttc tgaacggcgc agagtagaca cagagacgtt 120

tggtgaattt ccgaggcaca ggcagcccta ccgtggtggc ggccgaggct accgtggcgg 180

tgggcgttcc cgtgggtcat attacggtgg cagaggctat ggaaacacgg ggaggggtgg 240

ccctgggaat tcttatcctc actggggcaa tgggagagat tgattatagc agcagcagcc 300

atacttgcgg gtgttgtagt cttttgccac atgcatgaag cgcatccatt actatntaaa 360

caaataatgg aaccttacca ccatgtcact cgtc 394

<210> 38620
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E5

<400> 38620

cggacgcgtg ggtcagatac gaaggttgtt tacacagagc aattcatttc cacccgcgcg 60

ataagatgga agtcagaacc atgtagttgt tttcgtttgt aattttgttt ctagagtgta 120

agatttgaca aggctgttag tttgcacctc ggatctgctt atatccacag ggcaacctat 180

agttcagcaa gtattgagct atacatatgt cccgagaaga ttagatagat gagttggcgt 240

cttggcgatc gatgtgggct tttgccgttg ttgttccttg caatttatgt tcgaaaaaaa 300

gaaacatgtt cgcttttaag gtttacgata cggtatatat tattcttgga agtgtt 356

<210> 38621
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E6

<400> 38621

gcttcgcagc cagcactcgc cacctgctgg gcaatgtgct gccctccgtc gaaggctact 60

acgggaactg tgtgtaccca ggtggtctca ccaagaccag ccaggaggtg aaggaagctt 120

cgcttgtgga gattgtgacc gcgatcaggg aagccaagga agctctgtca tcgaggttcc 180

ttgactggtt gagcggcggc gccaaggaga accactacaa tgtgtcgcta gactacggca 240

ccctcgtcgt gactgactgg agccatgtgg gcttcaacga ggttgactac gggttcggtg 300

agccgagcta cgtgttcacc ctgaacgacg acgtgaacat cgtccccttc gttgtgtacc 360

tg 362

<210> 38622
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E7

<400> 38622

cccacgcgtc cgttttttt tatttttttt ttttttttt tttttcactg ttatttggga 60

cttgataaat aatactcata cattcgggag gcaagttaca ctgaagtaca acagcaaacg 120

tagagacgac atccggatct tgttgctacc aaggcctaat aataatacaa gtgcatcaaa 180

ctgaaaattc caagtttctt cccaaaacaa ggcaactcaa aagtctagca tatattatat 240

gtctgctaaa agcttctcca tctattcatt tccatagcaa ccctactgcc tgacttccaa 300

caaaaaagaa aattaacgaa agataaagca actaatgggc 340

<210> 38623
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E8

<400> 38623

gctgagtttg ggtaaggagg atgattcgtt tcctatgaag aattcaacgg ttcagagcac 60

ggcagccctt attgagtgca aatgtgggat gcctttgtgt atatgtgaag caccaaaacc 120

agaaccttct tctacacctg ttaagaatat caacacc 157

<210> 38624

<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-D11

<400> 38624

agaacacagg gcacacgcac tacacgcact tcacgcagat acatatagag agaggttagc 60

tatagcttgc acatctattt aactaactaa ctaactggct agctagctcg atccgcagag 120

caaagcgaaa gcagcaagaa gcaaagcaat ggagaaccct gcgagtgtgc tagttctacc 180

agcgcagttc accaaactca ccttcggaaa cctgtacatc cgccgggccg ggccgggcag 240

cagggagata accgaggagg gcaggtgcga cctggacagg agatacgtga gtaacttcca 300

cgtctacgac ggccgcggcc ccgacgccag ccttgtggcc cgcgtgcagg ggatcaccag 360

cgaaantcgg gacgcgcacc aacttgtcgt cgatgtgttc gacaccgaca ggctcaaggg 420

gctcacgctc gtcaccaatg gcgtga 446

<210> 38625
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B8

<400> 38625

tgttcctgct acaaggaagg aagatgtaac tgctgatagt aggaagacca agaatatcag 60

actatatgtt aagcgtgtat tcatatcaga tgactttgat ggagaattgt tcccaagata 120

tttgagcttt gtgaagggtg ttgttgactc aaatgacctt ccattgaatg tttctcgtga 180

gattcttcaa gaaagtcgaa ttgttcgtat aatgagaaaa aggctggtgc ggaaaggcct 240

tgatatgata cttggcattt cttgcagtga aaatagagat gattatgaaa ggttctggga 300

gaactttgga aaaattttaa agctgggtgc catggaagat aaggaaaatc acaagagaat 360

tgctcctttt gtgcgcttct tctcttctca aagcaacaat gaattaatta agctggatgg 420

atatgtggaa aacatgaa 438

<210> 38626
<211> 345

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-B9

<400> 38626

cagctgcatc gacgaggacc gccgtagcgt tttgtgaagc aagggacggg agaggaaccc 60

gaggaaggcg aaaatgatct accgcaactg gtcgctgctc tcgtccacag tcgtcatttg 120

gggcggcgtc gccaccgccg gcctcgccgg tatcttcctc ttgggcggca aggagaaatt 180

caatggttat ctgtgccgcg aaggcgagag gcttaggcag caggacagag ccacgatggg 240

ccgaagctaa gcgttagctt ctttggtatc tcaagggagc aatagccctt ggaaatttca 300

cangattcct gcgtccctac cagaacaagt ccctatctag gatgg 345

<210> 38627
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-C1

<400> 38627

ccaagggcaa accaaccgac cgattaacct accaccgcct cgcctcgtct ccgctctctt 60

gctcggacaa agccggggcc gttcggcggg aggcagggga cgcacgggca ggcagccatg 120

aacggcatca accccaacgg cgggttcctg tcgtacggga acatggagag ctacgcgatg 180

tgggtggcga ccggcgtggc gtcggccttc ttcgcgtccc tcgagcgctg ctcctgcatc 240

caccttcaca ccgcggagga cgacggcgtc gaggaggagg aggacctcga ggaggcccgc 300

cgctccttct cccgcccgat ccctgagtac tactacgacc ggtccggctt ctccgncttc 360

gtcgccaaga tgtgacctga ccg 383

<210> 38628
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-C10

<400> 38628

attcgatttt tcaaaggaac aactaatatt tggtggaaga agttattatg gtgcactgtg 60

gtggtgcact tggagctcag atggaaaata tctattaaca ggtggtgaag atgatcttgt 120

gcaggtatgg ggcatggatg atagaaagat agttgcttgg ggtgaaggac ataattcatg 180

ggttagtgga gttgcttttg attcatattg gtccccacca agttctgatg gaaatggaga 240

aaatgtatat cgcttcggtt ctgttgggca ggacacccaa ctacttctgt gggacctggc 300

actggatgag attgttgtcc cactacggca tccttcaagt gcctcaccta cgtttagcag 360

cgggagccct ttcacacact gggacaatgc atgcccttca acaggtgttc ttcaaccttc 420

tnctagaatg ccagatgtcc caaaactatc 450

<210> 38629
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C11

<400> 38629

ctgatgagga caagacaact gttctggagt tgacgtacaa ctatggagtc acagaataca 60

gcaagggcaa tgcatatgct caggttgcca ttggcaccaa tgatgtgtac aagagcgccg 120

aggcggttga tctggccacc aaagaactag gtggcaagat tttgcggcag ccagggcctc 180

tacctgggat caacactaag atcgcctctt ttgttgatcc agatggctgg aaagtggttc 240

tggttgacaa caccgacttc ctcaaggaac tccactgaag gctcgggata cccatgtgct 300

gtgctaggat gtagtaatgc ttgtctgtgg tgtaataaga tgtgggtggt ttggttacgg 360

cctgatgaac ttataatact g 381

<210> 38630
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-C12

<400> 38630

cagagacgaa ggtcttgttg aaagggctgt aaagttagga caggagttta gggaccagtt 60

acagaaggtc cagcagaaat tccctcaaat cctaagagaa gtgcgcggga ggggtttgct 120

gaacgcagtg gatctaaaca acgacgcgct atctcctgct tctgcatatg acatctgcat 180

caagttgaag gagagaggca ttttagcgaa acccacacat gacactataa tccgacttgc 240

tcctcccctc acaatcagtc ctgaggagct tgcagaagca tccaaggcgc ttagtgacgt 300

gctggagcat gacttgccac agctgcagct gcagaagcag ataaaaaagc cagaatctga 360

ggcagagaag ccagtctgtg acagatgcgg ccgggacttg tacggatgaa tgaagcctnc 420

gaacagagat aacttcattt tcgta 445

<210> 38631
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C2

<400> 38631

atccattcca cacaaccacc actgctcttg ctcccagccc gccgcaggag ttgccagatc 60

tgccccggtc acaggagctc cgactccgag ccctctccaa tggcggttaa ggtctacgtc 120

gtgtactatt ccatgtatgg acatgttggc aaactagctg aagagatcca gaaaggtgcc 180

tcgtctgttg aaggtgttga agctaaaaca tggcaggtcc ctgaaaccct ccctgaggaa 240

gtgcttggaa agatgggcgc acccctaag cctgacgtgc cagtcatcac gccgcaagaa 300

ctcgcagagg ccgacggaat cctcttcggg ttcccaacga ggttcggaat gatggcagcg 360

cagatgaagg cgttcttcga tgccactggt gggctc 396

<210> 38632
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C3

<400> 38632

gttcaggaga gccttattca tgcaatggat actggtaggt acaaggactt gcatggggga 60

cgagtgactg atcttaatga ctcgattgtg gtgttgtcta caagaatgat ccaaggatgc 120

caggatgctt ctcttggggt ggaagagggc aatgcttttt cagaagaaaa ggctgtggca 180

gctcgtgggc atcaactgaa gatcatagtt gagccgggca caaccaacat cggtggaggc 240

aacgttgtag tttcgtcaag gcattccttg ggaagcagtg aagcctcaag taagcggaag 300

ctccacatct ctgatgggca agaaaagaca gaagaatcgg caagcacttc aaagcgactg 360

catagaacat caagcatccc attcgacttg aaccttccag gcgacgatga ggaagcccat 420

gatga 425

<210> 38633
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C5

<400> 38633

cccacgcgtc cgcccttatc ttcgtgacac ggtcgcgcag ctggtcgttt gtggagcgtc 60

ctgggttctt gctggtcttc gctttcttgg tggctaagct gattgccact ctgatcgctg 120

tatatgccaa ctgggcgttc actgcgatca agggcattgg atggggctgg gccggtgtca 180

tctggctcta taacatcgtc ttctacttcc cgctggacat catcaagttc ctcatccgct 240

atgcgctgag tgggagggca tggaacctcg tccttgagca gaggattgcg ttcacgagca 300

agaagaattt cggcacggaa gaaagggagc gcaagtgggc gcatgcgcag aggactctcc 360

atgggctcca gccgccagaa gcatccatct tcgagaacaa gacgacattc aatgagctga 420

accagctcgc gg 432

<210> 38634
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-C6

<400> 38634

atccatgatg ggcatgcctc cacagatgtt tggcggcgga tcgcaggcag ccatgatgta 60

cccgcaacaa atgccagtgg cgccgcagca gccgatgtat ggtggtggtg gtcgtctggc 120

agggtacatg cagcatcctg ctgtggccgc tgcacactac tacagtaacc tgggacggcg 180

gggatgtatg ggtaccccgg cgcgaacggg ctgtcccagg gcatgtatgg cctctcggtg 240

caggataact cgtcgtacca gactacgaga gcgccaccct ctgcggcgac gaagcccgaa 300

gacaagcttt tcggcgacct tctgagcatt gccaagacca agaaagcttc atgagacgag 360

caggagcatg agctttgtcg tttgatcttt tacacttgtg taacattcat tgtctggctg 420

tcgtataagc tttttgggtt ctctnttttt tt 452

<210> 38635
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C8

<400> 38635

cggacgcgtg ggctgagaaa aacaaggagt cccctggtgg accatggcag ttcgttggtc 60

tgttgccccc gtttgatccg cctaggcatg acagcgctga gacaattcgc aaggctcttg 120

gtcttggtgt taacgtcaag atgatcacgg gtgatcagct tgctattggt aaggagactg 180

gaaagaggct tggcatgggt accaacat 208

<210> 38636
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C9

<400> 38636

cccacgcgtc cgctcgctcc agccgcttac agctccgccg ctcgcctctc cgaccgccgc 60

gagaatgccg ttcaagaggt tcgtggagat cgggcgcgtg gccctggtga actacggcaa 120

agactatggc cgcctcgtcg tcatcgtcga tgtggtcgac cagaacaggg cacttgtgga 180

cgcccctgat atggtcaggt gccagattaa cttcaaacgg ctctcactta ctgacatcaa 240

gattgacatc aaacgcgttc ccaagaagtc aaccctgatc aaggctatgg aggaagctga 300

tgtgaagacg aagtgggaaa acagctcatg gggcaagaag ctgattgtcc agaagaggag 360

ggc 363

<210> 38637

<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D1

<400> 38637

cgccgccgtc gctctgcccg cattcccttt cacaacaccg agacgccagg atgacggcgc 60

agactgcgga ggagctcgcc acccagatcg agcagcagaa gctcgaggag cagaagaccg 120

aggcagagga ggttgtggtg gaggatgagg aggacgacga cgatgaggac gatgaggatg 180

atgatgaact tgacggacaa gaaggggatg ccagcggcaa gtcaaagcaa agcaggagtg 240

agaagaagag ccgcaaagcc atgctgaagc ttggcatgaa gcccatcact ggtgtcagcc 300

gtgtcactgt gaagaaaagc aagaatatac tgtttgtcat ctcgaagcca gatgtgttca 360

agagcccgaa ctcagacaca tacgtcatat tcggcgaggc caagatcga 409

<210> 38638
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-D10

<400> 38638

tttattcttt tggttgttgt atttgctgat taacgactgg ctctattatt atataaagag 60

gatcatatca tcacacaatg acacaaacag aacgtaacca aagaagacga cccataccat 120

acccaaactg ccatgcgtga gaatagatag acagaaagaa caggaactca accaacacaa 180

gacacagcaa gctgcagccg cggcaggcat ggggcaccgt gcgcactgac accgggcccc 240

accaccatta ccacccgacg cacactntat ttagcccacg tcactcgcag cccgcaccgg 300

acacgtccac gcgacagtca ctgctagcta cgtaccgggc tacgtacgac acacacacac 360

acacacacag agagacgcca gtaaccgtag cgtactgaac agcaaaatcc cgtgtcatac 420

tgccatgtac gcgcgcgaga g 441

<210> 38639
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-B4

<400> 38639

cccacgcgtc cggtacgcgg tgcgccactg ccgggtgcgc tccgagctcc tcgcgctggg 60

catccgccag cgctacacgc tcgccgacgc gcaccacgcc tacgccgagt cgctgcgcgc 120

cgtcggcgcc ctgctgcacg acttcctccg cggggtccag tcgctgccgc cgncgnncgc 180

cgagcccgcg ctccgnctnc cgcagcagcg gaagggcgac ggcctccctg ccgcgtcgcc 240

gccggccgcg atggcgtgct cctccggcgc cggcgacgcg ccggccgtcg ccaagcaggt 300

ccgcatcgcc cccgacgacg ggcatatcca gttctncgac ggcgactccg attccgagga 360

tgggcacatc aagttccact ccgacgaag 389

<210> 38640
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A1

<400> 38640

ctcgacgacg ttgtcacgcc ctctcagctt cgctcgacca tcgctaagga gatccgtaaa 60

aaccagaacg tcaccaaccc caaggtggtt gatatgcttc tgttcaacgc gacggaggag 120

ctgaacaaca tagtcgaaca tgcaaagcag cgccatcatg tgattgggca gtatgtgatc 180

ggccaagagg gcctggtgca tgagctgggg tcgaaggatc tagggaactc tgacttcctg 240

aagaaattct acacaagcaa ttacttctga tctgtgttgc agatttacaa catctggtat 300

actccgggtg gtgctctgaa taagacgaca ctgaggacct a 341

<210> 38641
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A10

<400> 38641

gatggctttt cctccccctt cggttcgggt tcgggttcgt gaggatctgc ggggttcgga 60

ggcgtgggtg agcggatcga gatggccgcg tcagatgttg agtaccgatg cttcgtctgc 120

gggctaggct gggccacgga cgatcacttg cttcacaacg tcttgagcac ctacggcgag 180

gtcctcgagt acaagatcat cctcgatcgg cagacgcata agtaccgcgg attatgattc 240

gacaccttct gcacggatga tgcgatgcag aacgccatcg agggcatgaa cggtaaagag 300

ctgtactgct cgaacatcac cgtgaacgag ggccagtccc gcggaggtcg tggaagcgag 360

cgcggcggag ggtactga 378

<210> 38642
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A11

<400> 38642

acgcagacgc gtgggattcg ataaaatatg ctttgcatac catgatgctc ggagctgcat 60

cgacaatgac ctgacttctg ctggcaatgc tgatgatata aaagatgacc tgaatggtct 120

cgacaaggct gctagtgctg atctaggatt gagaactata aaacg 165

<210> 38643
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A12

<400> 38643

gtacaagact ttctctgacc actcgcccgt gctccagttc accaacttca ccgcaacgca 60

ggcacttctt gacgaaattg gtggcagcac gtcgtcctgt atccatgtca tcgattttga 120

tcttggcgtt ggaggccagt gggcttcttt cttgcaggaa cttgcacact gccgtggcgc 180

aagtggcgca gctctgccgt tcgttaagct cactgccttt gtatcagctg cttcccacca 240

tccactggag ctgtgtcttg cgcgtgacaa cattgcacag tttgctgctg accttggaat 300

tcccctttgag ttcagtgcta tcagtgctga tatgatcaac cctgcagaat tcatttctgc 360

cgctgatgat g 371

<210> 38644

<211> 464
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-A2

<400> 38644

ataactggga tcatctcgaa aaccatcttt tagaaaggga tgcttgaagt gtacaactct 60

ttgagcgagg aaggcaaaaa ggagttcaac aaggcttata gcgcatcgtt ttacccatgc 120

atggatatac tctacgaatg ctatgaagat gtggcctctg gaagtgaaat ccggagcgtg 180

gtgttggctg ggcggaggtt ttatgagaaa gagggcctcc cagcttttcc gatgggcaac 240

atcgaccaaa ctcgcatgtg gaaggttggt gaaaaggtgc gctcaacccg ttcggaaggt 300

gatcttggcc cgctccatgc cttcactgct ggagtgtaca ttgccctgat gatggctcan 360

attgagatcc tgaggaagaa ggggcactcc tactctgaga tcatcaacga gagcgtgatt 420

gagtcggtgg actcgctgaa ccccgttatg cacgcccggg gggt 464

<210> 38645
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A3

<400> 38645

gcgggcatcc aggctcaaag caagcagatc taatctccag gcagcgtcgc gacagagtga 60

gtgagtagca cgacaacaac aatggcttcc ctgaaggccg cgaagcccag cggagttgcg 120

gcgcagggca aggagccggc gcccaagctc agcgagacgg cgacgaagcc gtcagccgcg 180

aagagcggcg gcgttaagaa ggctgagcag aagccccggg aaaccaaaag gaaggtgaag 240

agcagcaaac cggcggcggc ggccaaaaag tgacgtacag tacagtacgt gtggagtgta 300

atggagcttc ccatgcatga gtgaatccat gccatgttat gaatctagtc cttcctttct 360

tgtatcttcc atgtgacgcg gcgtgtgcgt cccctcatgt gtgatgatgc cagatgaata 420

ctaacaataa gaacgttgtg tgactggc 448

<210> 38646
<211> 380

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A4

<400> 38646

gtgtgtatgt attttttag tacaatagta ttcaaaatgt atgaggactc tttctttttg 60

attgttttga acaatgggcg tatgaaccgg tggaagaaca attcatttga tagttgtttg 120

tgtccaaaat ggaactaaat ctaaaatttg tggagcaaac cactcaatcc agatctctat 180

ttaatcaaac attttttttg ttatgatgca gttccacacg tgaaatagcc atatggatat 240

gtaacaacat aaatttgttc agtgggaaat aagtttctat aatacattta tgcacccagg 300

tgacaagaaa aaaatatttt gtcatttcta taaaacatga tgcatttttt ctcaattcat 360

agtgtgatgt tattcctctt 380

<210> 38647
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A5

<400> 38647

caaagaccac ttcccgtctt cctcctgtgg cctgtctgtc atctggctct gaaacgatgg 60

cagtcctgca agttgctgct gctgcccctc cccctgtctc tgtgattggg ttcgagggat 120

ttgagaagcg ccttgagatc agcttctctg aggcacctgt cttggctgac cccagcggaa 180

ggggactgcg tgcgctctcg cgtgcccaga tcgactctgt tcttgacctt gctcggtgca 240

ccattgtgtc cgagctctca aacgaggact tcgactctta tgtcttatct gagtcgagcc 300

tgtttgtcta cccatacaag attgtgatca agacctgtgg aactacaaag cttctgctcg 360

ctattccgag gatccttgaa cttgctgaag agctcctgtt gccactcgct gcagttaaat 420

actcccgtgg aacggtcata t 441

<210> 38648
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A6

<400> 38648

attttctgc gcttggaacc aacgaattct cacaaaacat cagcgaactc gtcggcttga 60

tgggcgtaga ggctttgcgt cgcaatctgg ataatcacat ttatttattg tggcgcgaat 120

cctggatggc cgcagcatct gtgtcagttg tcacctctgt ttctttcaat cctacttgac 180

tcagaacata aaaaaaaaga ttcatgaaaa aacaac 216

<210> 38649
<211> 314
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-A7

<400> 38649

cccacgcgtc cggagccact tggtgtttgc gctgggatat gcccatttaa ttttcctggt 60

atgattcccc tatggatgtt tgccatagca gttacgtgtg gcaatacttt tggtcttaag 120

ccatcggaaa aggacccaag ggctgctatg atgcttgcgg agctagcaat ggaagctggt 180

ttgcctaagg gtgttttgaa catcgttcat ggcaccaatg atgttgtcaa taatatttgt 240

gacgatgagg atattaaggg ctgtatcttt tggntggttc caatacagct ggtatgcata 300

tttattctag agca 314

<210> 38650
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A8

<400> 38650

gtgcaaagaa aaggattggc tgtggttgat tgttcctggg cacgtttaag tgatgtccct 60

tttgtgaaac tacgttgcgg tgctcctcgt ctcttaccat ggttggtagc agcaaatcct 120

gtgaactatg gccggccatg tgaactggca tgtgtggaag ctttatcagc agcccttata 180

atatgtgggg aggaagaatc cgcacatttg ctggttggga aatttaaatg gggtcacgca 240

ttcttggctc taacagagat 260

<210> 38651
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A9

<400> 38651

gaattccctg cgattcctct cccctcgcct tctcgtctcc ccctagggga tcgtcggaga 60

ggaatcgcaa agagggccgt ctcatccgag ttaaggaagc catggagcac aaggaggctg 120

ggtgccaggc ccccgaggga cccatcctct gcatcaataa ctgtggcttc ttcggcagcg 180

cggcgaccat gaacatgtgc tctaagtgcc acaaggagat gataacgaag caggatcagg 240

ccaagctggc tgcctcctct atcgacagca tcgtgaacgg cagcgacgcc gtcatggagc 300

cggttgttgc tggcagcaac acggtagtag ctggtgccca agtcgagttg caaacaatga 360

acgtgcagc 369

<210> 38652
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B10

<400> 38652

cccacgcgtc cgactggacc aaggctctaa tgtacatgct gtgcaatctg aagtgggttc 60

tctactggct tattggcaat acaagttttg gaccaacctc tggatcactg gacacacaat 120

ctgtggagaa caagagttga tgctggtctc tctctgcaac aactggacat aggttgtgta 180

ctcgacccta ttcggtggat atagccgcag tgacaattat gacacgtttg atgtgcac 238

<210> 38653
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B11

<400> 38653

caagattgat aggcgatccg gcaaggagct ggagtatgga gcccaaattt ctcaagaacg 60

gtgatgctgg tatggtgaag atggttccca ctaagcccat ggtggtggag accttctctc 120

agtatcctcc tcttggtcga tttgctgtcc gtgacatgag gcaaacggcg tctgtcggag 180

tcatcaagag tgtggagaag tatgacccaa ctggagctca tgtgacgaat gctgctgcca 240

agaagaaatg atctatctgg ctggtgacga atgctgctgc caagactaaa tgatctatct 300

gtctggtgct gtgcttgc 318

<210> 38654
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B12

<400> 38654

cccacgcgtc cggacgaact agaagcttat cgccaaattc actttcctgt gttgtcagaa 60

ctcaagaaga tgacaaagtt gccctctgct gctttcttac ggtccgaagg caaatgtccc 120

cttgcacctg aagaggctgt gcttatgcta gcagctattg gtttcaagcg cagcacaaat 180

atatacgttg caggtgctga aatttatgga gggaaggata ggatggctgc cataagtcgt 240

ctttatcctg ctttagtaac taaagaaacc cttctgtctc catcagagct cgaaccattt 300

aggaacttct catctcagtt ggcagccctg gacttcattg catgcgcagc tgccgatgta 360

tttgctatga ctgacccagg aagtcaattc t 391

<210> 38655
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B2

<400> 38655

cggacgcgtg ggcggacgcg tgggtttttt ttttttttt gaagtgcgaa aactagttga 60

ttggccactt caatgaacct caatacaagt aagttgaact agatacgtgt gcacccaaac 120

aagacctagg ttaagaattt ggtgtccaaa gaagcccagg aaaccagaac aatcggtaac 180

ctgtgttttg gccagcaagg actgcatcag catatataac aaacactaca catacacctg 240

tgcttctccg ggcaaatctt cataaacata gcgactttca tcgctcactc tgacagtcgc 300

tttgattgat cagttgccaa ctagagatgt gtccaagtcc taagcccccc atgtggcagc 360

aaaaaggata cctggaggta gtca 384

<210> 38656
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B3

<400> 38656

cggacgcgtg ggccgaactg cagcacctct tcttccgcca cccacacgtg ctcccatggg 60

cggcaccgcg atctcagtcc ggctgctcct aaccgtcgcg cgccatgtgg cctccggccg 120

ccgcgcccgc ctcggggccg tccgcgcgca gtccgcgccg gcggcggcag cggcggcgct 180

gacgcaggac gacctcaagc ggctggcggc ggtgcgcgcc gtcgagcagg tgaagagcgg 240

gatggtgctc gggctcggga cgggctccac ggccggcttc gccgtcgccg agatcggcgc 300

gctcctggcc gcgggcaagc tcgagaagat cgtcggcgtg cccacatcca agcgcacctt 360

cgagcaggcg cagtcgctcg gcataccgct cttcacgctc gac 403

<210> 38657
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H8

<400> 38657

actttgggct gattttgtgc ttgttctaag gggtcgtagg aacctaagtt cgcccaagag 60

ggcgtcagtg ttcaaggacg ctcttcctct tacgcgtgag ttcgaagtct aaagtaaagc 120

cgtagaacaa ggagttacgt ctttccgcgc aaccctacaa gatcataatt tcaccagggt 180

ccgcccggcc gcgctcgcac tgaagggaac cgaacgcgac caacccctte ctcacctcaa 240

cagaggggcc ccaactcttc ttaacatctc ctaacttata ttcaattgaa taagtttcca 300

acacgacact ccataccgtt gcactcgcgc aacactacga acaaaacccg tcaccacgca 360

cctcaaggcc cacgaatc 378

<210> 38658

<211> 360
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-G2

<400> 38658

tgggctgatt tatgtgcttg tttatgtgct tgaaaacctt ttttaaaaaa taacaagcta 60

tccgcctact actactagag caaatatagt agaatttcag tgtgttgcct tcttgatgat 120

ctatacttta tttatctatt tattttacgg tggttaagtc tcttattagt gttgatgttt 180

tggttctggc gtggtctctt gtagtagtgt aagtggtcgt gacttagttt cctcntttgt 240

gtcctcctcc tcttctgtcg gttgggatta atttggttcc tttgtactgt tgtactgtta 300

ccgttgctga ctctcttgat gagcttgttc ctgttgctaa gcgggttgcg tagaatcatt 360

<210> 38659
<211> 349
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-G3

<400> 38659

aacctttggg ctgatttatg tgcttgttta tgtgcttgtt tatgcgtcgg gcgaggcact 60

atcataatat cgtctgcggc gcgtagaagg cctcctagaa tcataaaaac tcctaggaca 120

ccaccgtcac tccgggcacg gacgagtcta gcgaggacga taagtcgata gctgtttgcg 180

taagaaagac ctagtgccct tcgagttagt tcccttacgc tgtcgaagcc nctatgggcg 240

tcttaggaaa gcacgcggag tcgaaggaaa gtgcgaagag cccttagggc gccccggacg 300

ggaagcacga cgaattcttc gagtagctac ctcatacggc cggcggtac 349

<210> 38660
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G4

<400> 38660

tgatttatgt gcttgtttat gtgcttgaaa aaaaaaaaaa aaaacccaaa cctcaaaaaa 60

aaaaaaaaaa aaaaagaaga aacgcaaaaa aaaaaaaaag ggtggttgtc tcagaggact 120

taagtccatg catgtgcgta cgtgatgcta cagtctcctc acagggctat tcaaacctaa 180

cctatcggtt gctgccccat aatgctgcga tcgggaaaat ttcggtgcca tttaatccaa 240

ctgttccgta gtatactttt tccctgttag tcggtgcaac agttaagagg tttgtattga 300

atgtttccct ta 312

<210> 38661
<211> 483
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G5

<400> 38661

tggcttggaa cctttgggct gatttatgtg cttgtgttgc tccttttact ctgtgtagtg 60

tcatcgttgg tcgcttggag ctttgattat tgcttctggt cttttgttgc gaacttacta 120

ctttgcaacg gagattcgtt tgctggcgaa gaatacttct ccgtcggatc tggagggaaa 180

gtgtgctgtt gcaaagcatc atagtgacga tcggttcatc tcacttgtga agtcggttcc 240

tgagaagctg gcacccatta aaatttagaa agtgaacgtc ggaatggaag ccgagaccgc 300

aacgcccgat ggctaaaccg cggcacataa gcctacttaa gattcgtatc cccccgccat 360

cggaggagaa gaagagaatg agtccacccc agtactagcc tcctagggac ctctcgacgt 420

cgctgaatga tcctctaaaa atacggcccg ataaaggata gtatctgaga acccggacac 480

gac 483

<210> 38662
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G6

<400> 38662

gatttatgtg cttgtttatg tgcttggcag ttcccatgct ctccgtcagc gtcagcatgg 60

cagcattcac ggcttcacgc ttgcgtgtta ccgtcggact cgacgaatat catcagcctg 120

agactcgtgt ctttgcgcat tacggactcg ggtactcgtc cggcatttgc atgtttcgtt 180

actgacctgc ttaaggaagg gcaaggcgag gcggcgattt gatgttagtt agacgagacg 240

agacttaccg aagttgatag ttgagggccg ggcgcaaaac acggagctga cgagcgcggc 300

gccccccctcg ctttgaggcg aaggatatag atcgccgcct gccgtctccg ctt 353

<210> 38663
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G7

<400> 38663

tggcttggaa cctttgggct gatttatgtg cttgtttatg tgcttgtggt aacatgtgga 60

gaaccgcctc gtgaaggtcg tccgcacggc ggtattcaag agtactactc ttcatttata 120

ggctcggaaa gggtaagggc tgaggaagcg gaagtccgat tagagtgatg ggcctcctgc 180

gtaacctgag gtattggtgt cgaggaagac acggcccgcg ttaagtataa aagagaaggg 240

atggataccg cgtaagagtt tcgaggttcc ggatactggt acttacgaag cgtctttttg 300

cacacctaag gaggtagtcc aagtttaaca acggaagatc gcttacggac cttcgacttc 360

gtatagtgtc cgtcgg 376

<210> 38664
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G8

<400> 38664

tttgggctga ttttgtgctt gtggatgtgc gggtccggtt ttgttccttg ctctccattg 60

tatacgtgtg ctggggtgtg cggatacagt cgtccggtgg ttatatttgg aagtggaacg 120

ggtgctggtt aagtgttggt gggtttgggt gcgtcttttt cctcggctgc tggtgggtct 180

gcgggggtgc cggtgggtaa tcgggttggg ggtaggaatt agaagctggc tttgggtact 240

cctaagcctg ggggatctgg ctcctgaagg tgggtaatcc aatgctaaat ggatggttaa 300

aggggccaat aatgggtggt tcctttcatg ggaggattcc ccc 343

<210> 38665
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G9

<400> 38665

aactgaaaaa ctcattggaa aacttgagaa gcagataact gattttaacg cggataatgt 60

agcatgccta aagactttgc aactgatgaa gaaagcaatc gcccttgttc tacatgtggc 120

tgaagaataa cagatctcga ttgaa 145

<210> 38666
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H1

<400> 38666

tggcttggaa cctttgggct gatttatgtg cttggctctg cttatttgct gcttcttcag 60

tcttctcatc tgttagctgt tacgggtaag accaagactg gaactaatgg tcctggaagg 120

actggtaggt ctgcggttag ggctgtttct tagagtgagg acgctgagtc tgctgttgct 180

aatgattttc ctactattat ggatcatacg attcatacgc ctaagcatga tattgcttat 240

ggttatcgga agtatagtga tactatatct aaggatctta agatttcctc tcctggcgat 300

aagttggcta ttgctcccgg tactaggaat ttcgaggaaa ctttgcgggg cgaggtcggt 360

gtcgagcacg ctgcggagct tattggtgct cctatcgata aggataaggt cgtcgtatac 420

tctaagggcg gcgttaaaga gggccgcact ct 452

<210> 38667
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H10

<400> 38667

atagacagag tttcatagcg caagatgcgg atggtgcaca ggccactagc ttgacagctt 60

cgacgggatc ctgcgatagc tataccatgc agctcaggat gcctactaca gcgcatggga 120

tgcgccacta tagcgcacta atctcatga 149

<210> 38668
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H11

<400> 38668

atgtaatcgc cgtgtacgtg aatttctgat tctggcacgt acatggttcg cattcggttt 60

ggcttccaaa actgggtgtg acataagtgg tatcaaagct gtgctgactg taggaccgct 120

ggcctagagt agaattggcc gtgttaagga cttattgact attacttcac ctcatccttg 180

attttgattc aaaatattag tcacctcgac taattttatg ttg 223

<210> 38669
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-H12

<400> 38669

tgggacagct gccttaataa agtcaagatt ttgcttcaca agatcgatgg tgtgtaccag 60

agcactgtta atgcggctga gggcaaggtg accgtgtnnt accgctggcc tatagtacaa 120

ttgtccgtgt caaggactta ttgactatta cttcacctca tccttgattg tgattcaaaa 180

tattactcac cttgactaat tttatattga aacaaacgta cgattagaaa agtatact 238

<210> 38670
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H2

<400> 38670

aacctcttgg ctgatttatg tgcttgtcga tgtgcgggtg gatctgcggc tggatcccca 60

gcctcgagtg cggatggatg tgcgggtgga tgtgcgagtc gttggacggt cgaaacggtc 120

gtcacgatat atcgagtccc caatcgctcg gaccctcgtc gcgataccga accttcactt 180

gcactagaaa tcacccggac tacacctatt caccatgcct aaagcataga tatatgcata 240

atggataatc gagaagtctc agcgatacgt atatctaagg atcttaagat ttcctctcct 300

agcgataagt tggctattgc tcccggtacc aacgatttcg aggaaacttc acggggcgag 360

gtcggtgtcg aacacgctgc ggagcatact gatgctccta tcgataa 407

<210> 38671
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H3

<400> 38671

ctttgggctg atttatgtgc ttggtagatt atttcggata ttagtaagac ttaccctaat 60

aaggacgccg ggtaagtgac ttcggagagt catctgaggg cgccggagag tccggtccct 120

aataccgccc tgcgggctga tgacgcttcc cctgctgata ggctgaccag gaaatcgagc 180

gacaattcta agcttcgagc ctcccacttc gtatcgaagt cctttagtaa aaaggcccca 240

gacgctcggc ggcgaagtcg tataagaaag gcgtgcgatc gcagcactgg catcagggcg 300

accccgtcga ttcagagaga cgtaagttct caatcccgta agaacgtata acgtaaagca 360

gtgcgct 367

<210> 38672
<211> 358
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-H4

<400> 38672

ctttgggctg atttatgtgc ttgtttatgt gcttggtttg tgttgttgag tctggtgatt 60

gntcttgtct tgctaatgag gcgtcttgtt ctgctgagga gcctagtggt gctgttacgg 120

atacntagga ggagacgttg gtggatgatt tgtcgtcgtg ctttcggtag tcgtttcatt 180

tggtcgttgn tacgtttact ggtgttttgt atacgtctta tcatcgacga ccgttcctat 240

taattatatt attacatact cgaggtcgct agtcggggtc ggccggtaat aagataagaa 300

gaaccggtcg ttctctaata atacctatac tcatcattca ttcggtcgtc ccgagaac 358

<210> 38673
<211> 481
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H5

<400> 38673

tggcttggaa cctttgggct gatttatgtg cttgtggatg tgcgggtcat gttctgtcag 60

tgttccttgt gaattgatct ttgagaggtt gagattattt tgacgcttgt tacggagatt 120

gatactaatg tgttgttgtt tgttttagtt ggtgagggac ttcttgcggc tggcttgctt 180

cctctacatc cttgtaagtt taataagtgt cctgagactt agaagcggaa tgtttctgtg 240

tctcgggtac gggacactgc tgctgataat cgggttactc ggtggaatta tactacggac 300

tcacgtactg agcgttaagt gaattaagtc agtgtgatta gtgaggagcg tatcgctgtc 360

cggggcgctc gcaactacgt tccctatccc tatcgtccta ataggcggtc caagatctgt 420

taagcgcgtt taccagacaa tagcgagcgg gagccttaga aacaccgtta tcagccttcg 480

g 481

<210> 38674
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H6

<400> 38674

cctttgggct gatttatgtg cttgtttatg tgcttggttt ggtggtgtga agtgcagggc 60

gagaacactg gagcctggtg acgctgaagt ggtagggatt gttgaaatat tagaattgtc 120

atgtgcggaa gttgaattcc ggctagaaga ctaatgaaat tgagtttggg ggtaggcctt 180

gattctcgct agaaactatt ggtgctcgct agtgtcgttg ggactaaact gatcggaaat 240

gtagacatgg aaaacataag tttaccgccg agttagtaaa acgttagaag cgcaacaagt 300

gaaatgcctg gtaagtacat tacaatgcac gtagagaccg tcttaaggat tctggtacac 360

gcgtcaagcg tcgtatacgc gccaacgag 389

<210> 38675
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H7

<400> 38675

ttgggttgat ttagtgcttg ttttgtgctt gtcttgttag ttcccagtcc ctcgcgaaaa 60

catttgagac tggtgacagg gatgttccgg cgattgatta agtattataa ttgacatttg 120

ctgaagttta attaccggtt agaaaactaa tagaaattta ctttaaatct aaagattatt 180

ttacgcttca a 191

<210> 38676
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G12

<400> 38676

agacccgatg cagcaacagc aggacccagt ttccgccgat cccgagccac tgccgcccgg 60

ggacctcggt gatgccgccg gctcgttcgc aacgcagacg atcccttccc gcaacgcctg 120

ctccaagtac gatttcgtca aggtcaaggt ctggctcggg gagaacgccg accactacta 180

cgtcctctcc aggttcctcc tcagcaggat gctcacagtc accaagattc ctaatcatgt 240

cgccatcaag attgcccttg agctcaagaa gctgcttgtc gacaacagcc tgcttgatgt 300

atcccagagt gatctagaag ctaatctgtt caagcttatg gaaaaacggg gatacggaga 360

ggagtatata aatcgctata aaatgatgac aaggttccat catcaacggg ttccactagt 420

aattttggtg tgtggaactg cctgtact 448

<210> 38677
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-E8

<400> 38677

ggcttggaac ctttgggctg atttatgtgc ttgagattac tccggcctta ggaacgcatc 60

cttccgggtc gaagaagttg taggaatgcg tcgactctac cgtgcattcg aaggaagtaa 120

tcgtgcagca caacgatatg ttcccgttac gaagagaaaa cctgccccgt agcccaacaa 180

caaatacccc cagataaccc gggctatctc ggccggatag ggcatataac tcatgctcta 240

gcacccccgc ctccacggct ctggcaccga acgttcaggc gagcccccc cagtcgcgta 300

taaaaaaata gccaaatctg acggcactct aatcgtcgga gaaacgtcag cgtttcaccc 360

ccggtcgcgg aaccggaaac tcggaacgta cttaccccg 399

<210> 38678
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-E9

<400> 38678

gtcgactacg cgtccgccca cgcgttcgtg caggctgagt ggctgatatg gtacgacgac 60

tgttacgtcg ctcaggggc catgaccatg cgttctgctt gtactgtgga ataaataaat 120

gatgggttat ggtactcttt atctggtaga gtttggcagc ttgtgctttg agggatgtaa 180

tagtggcccc gatgtttgta ttttcatggc gagccggaaa ttttgtggaa taaaaaaaaa 240

aaaaaaaaat ataaaaaata aatagataaa aaaaaacaac ttgtaacaga ctcattaaac 300

gcagaaaaaa aaataataaa cgcacaaagt taccattaaa aataaaaagg gcgccctttt 360

taaaggaccc aagtt 375

<210> 38679
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F1

<400> 38679

gaactttggg ctgatttatg tgcttgttta tgtgcttgtg gagtatagcc ctgttgccta 60

cgacttcctc gtagggacat cacggggcct tattgatctt ataggagaat tctattcatg 120

aaggtatcga gacggtgatg catgtctaag gctactacag gaaggtcaga agtccactga 180

gtagtgaata cggagacggc gtcgatgacg tcgagaagtt tacaaggtgg tgttagaaag 240

ttgatctcga gtcgatgata ggcaaggagg ataacggtgg ccgttctccg ttaagggtcg 300

ggtaagggtc ggtttccgag ttaaaactcg ggagctgatt agatgggaat ggtagttagt 360

<210> 38680
<211> 330
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-F10

<400> 38680

cccacgcgtt cgcccacgcg tccgcccact tgttcgncca cgcgttcgnc cacgcgtccg 60

ggaagagcta ctgggaggaa tcggctcctt tcctaaagga aatttagagg aaataatgtt 120

cgcgccctca atgttcaaat tgcaggaaac tccacattcc tggacatctt caattgaatt 180

gggaagaaca ttgcacgtct acgttttcag gccgtttaag attatctgat tgacagtttc 240

acgcctaaca tngtacanga tagattaaga acattngttg ctgctgctcc tgaatttctg 300

caatcaggat ctcgtcagcc tatntttgat 330

<210> 38681
<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-F11

<400> 38681

cccggaaggc cggaacccac ctgctgcgca tctgcaagcc tcgagttgag ctcttccacg 60

ggcgctgtgg agatggcggc gaatctggag gacgtgccgt cactggatct gatgcacgag 120

ctgctccgnc gcatgaagtg cagctccaag cccgacaagc gcctcatcct catcggtcca 180

cctggctctg gaaagggaac tcagtctcct attatcaagg atgaatattg ctcngtgcca 240

ttagccactg gtgacatgct gagggctgct gtggcggcca aaacacctct aggtatcaaa 300

gctaaagaag ctatgaataa aggagagctn gtttcagatg atttggttgt gggcattatt 360

gatgaagcta tgaagaaacc ctcatgccag aaaggtttca ttcttgatgg cttttctaga 420

actgtgactc aagcacaaaa gcttgatgag atgttggcaa aacaag 466

<210> 38682
<211> 476
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-F12

<400> 38682

gcgtccggtc cggccgtccg ggcggcgccg ggaggttata atggcctcca ctttgtcgcc 60

gccggtgttc gagagggtgg ccgggatccg agccattgcc gagtccggcc gcttcaaggc 120

atggttgctg gaccagtttg gcgttcttca tgacgggaag aagccgtacc ccggcgccat 180

tctggcattg gagaagctag cggagaatgg ggcaaagatg gtgataatca gcaattcctc 240

taggcggtca tctgtgacaa tgaagaagct caagagcctg gggttcgaca cgtcctgttt 300

cctcgcgacc atcaccagtg gggagctcac acatcagcac cttcagaaga gagacgaccc 360

atggtttgct gctcttggaa ggaagtgtat ccatatcact tgggacgatc gaggggcaat 420

ttctctcgag ggccttggtt tgcangttgt gaacaatgtt gatgatgcag agttca 476

<210> 38683
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F2

<400> 38683

tggaaccttt gggctgattt atgtgcttga gttcgttccg tccctggtga gagaggaagc 60

acgtggccga gactagggta acgggtgggg tggaggtgtc cggttagttg gatggctacg 120

tgaatggggt ttgggcggaa gagaaatccg atccctcctg gtggtagtcc gggaa 175

<210> 38684
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F3

<400> 38684

ggaacctttg ggctgattta tgtgcttgtt tatgtgcttg tggatgtgcg ggtccggaca 60

ggacgataac atacttggta aagagggtag atcaatttgt tcctgccaca ccgactagta 120

aacaaggtaa tagtgagtcc cttaatagca cggcacgtca tagtaaaatg tccggaggtt 180

atatagagga tcattcgaaa acctagctct gacctcttgg gtccggtccc ccgaataccc 240

ttcctatttg cacttaaaag acctcgaaaa gtcaacgcca ctgagataaa tcgggccgat 300

aagaagctag accctaaatc ggcctactaa cgtttgcgct tggtcgcgga agttaacgac 360

tgaagatacg cataaagaag agaccggcga agtggagtca 400

<210> 38685
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-F4

<400> 38685

ggaacctttg ggctgattta tgtgcttgtc ctttctatat acttcgccct ccgttgtatc 60

agaaatgctg acttagtaac ggtcgtcatt ttgattactg cctcggcgtt tgctcggggt 120

accggttatc ctgcattaac gtctgaggct ggtaagtggt cgtctgtatg tagtgtatcg 180

ttttctattg ctattgcgtc tgcaacgttg ccgttcgtag aggtgaagtg ggtgcttgag 240

actattgagt atacatgtta gtaggaagtt cctggttctg ttacttgtcc ntattactcg 300

ttagtggcgg aatttttaat tgattatctg ggtactgagg agcatacact ttgtcatgcg 360

tagtc 365

<210> 38686
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F5

<400> 38686

tggcttcgaa cctttgggct gatttatgtg cttgtctccc gcgacgtcgg ggaccttgcc 60

ggtacccccg gattggacca ccctaacgtt gcttacgcta accttagacg ataaggcgca 120

atcgatacac ccaccgggcg gtcgtgaact ttaaaatatc ccacttcgac gccgaccggg 180

ccggagaagg cctccgaaag aaaacgagtt cactttcaaa tccgctatcg ccgcgaactt 240

ggggaatttt ctcggagtcc ccaccttaag gttcacgtcc gagagaaccc tagactcgcg 300

taaaaacgtc ggcgtacggt ccgcggccga taacattcac gagcatccca cgcacgacgg 360

aacggagtat catcgtccag aagacgtcta caccgctaat tctcctctgc ctctaaaggt 420

ccacggaacg acggggcggt gcgcaggaca taccgtaccc ttaaacg 467

<210> 38687
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F6

<400> 38687

ctttgggctg atttatgtgc ttgtttatgt gcttgtttat gtgcttccca aaaacacaaa 60

aataaaaaaa aaaaaaaaat taataggtaa acattaaata aataaataca tatatccccc 120

ataccattaa tcactacttt tatctatctt acttctactc caccaaactg gataattcat 180

attcatatac tgcttttact ttc 203

<210> 38688
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F7

<400> 38688

ggctccgaac ctttgggctg atttatgtgc ttgtgcccta gtattgtgtg taactggcct 60

gtcccccttt ctccttcact gtttgttggt gttgcgtgtg ttgtttgctt gtcctagcat 120

gatgctgagt aaggggaggc aaaagcctgc ccggtgcgtg ttacgcccaa gaagcctctc 180

ctagaagaca cactcggata gaactaagcc aaggtcctcg cataatgaaa gaccttgtaa 240

agcactgtcg acgagcattt tagttccgaa ttcccgtcag acgatccgtc cttaaaaaag 300

ctattcacga ccggcggcaa acgttaaaac tactccaa 338

<210> 38689
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F8

<400> 38689

aacctttggg ctgatttatg tgcttgtgta tactctgcag aactagcttc ccgatcccaa 60

tagtcacact aatcgcctaa ctgacgtttc cactaggccc cggcggaagc ggactactcc 120

ccgtacttga cgacttgccc ctcctcaagg aagggttcct ataaaaccct taaccgcata 180

gtcgggagat tcactagttc gcaagtggtt catccgtata attcgagcgg attgtgcggg 240

attaaatcgc ggagcaccgc gtacccgtcc actagtagca cacagcaacc ctccttccgt 300

ggttctaacc caggcattcc ggagacgctc taacctttcc cgtaatcggc gttgctcggt 360

actgaaggta gccacccgcg gtcatattaa taataaccga gcgcgctccc gccgacgtcg 420

gaaccgtaga caccg 435

<210> 38690
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G1

<400> 38690

ctttgggctg atttatgtgc ttgtggatgt gcgggctgat tatgtgcttg ttccacgtgc 60

taaaggtata tgccgggctc atgagcatcc ttgtacgtgt cgaattgtgt cggcggtaag 120

gtcggaaata agggcgtcga agtcgtctcc atcctttcta taagatacgc cctcaaattc 180

ggtataacga acaaccgcta ttacgaggct acgaacaagt ataatcgcta tggtgcgcgt 240

cggggtagcg gggtcgctgt taaggatacg tagtccgcga agtagcgtcg gagttgcttc 300

tactgttgag tagtctgcga gggcaaccta agtatgtcaa cgtagctcgg cttcataaca 360

gtgacttccg gctcctattc atactcct 388

<210> 38691
<211> 285
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G10

<400> 38691

ccgccgacgc gtgggctgac gcgtgggcat gatgattggt gcgctcttta gagatgttaa 60

ctagaggggg tgtttaatgt ggtatttcta atgatttagg ggtaacaaat aaggctattt 120

caggcgaaac tttacttact acgcaggcta tcctaccttg acacggatcg caaacttgta 180

ctcctcaacc tcaaaggctg taacatcctg attctgccca ccacgatcac agagtcgctc 240

tccaacttct gtctcttaca tctgtgcgca tgttataatg tacat 285

<210> 38692
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G11

<400> 38692

cacagagcat gacccctcgt cccatgaatt ttatgttgac tggtcctgtc acaatcctga 60

ggtggtcatt cgtcaggaac gaccagccta ggtttgagac atgctaccaa atagctcttg 120

caatcaaaaa ggaggttgag gatcttgagg ctgctggtat tcaggtgatc cagatcgatg 180

aggcagctct aagggagggt ctgccactac gcaagtcaga gcatgcattc tacctggact 240

gggctgtcca ctctttcagg atcaccaact gcggagtcca ggacaccacc cagatccaca 300

cccacatgtg ctactccaac ttcaacgaca tcatccactc catcatcgac atggatgccg 360

atgtgatcac gatcgagaac tcccggtctg acgagaagct actgtccgtc ttccgtgagg 420

gtgtgaagta cggagctggc attggccctg gtgtctacga ca 462

<210> 38693
<211> 469
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-E7

<400> 38693

ggcttggaac ctttgggctg atttatgtgc ttgcgaagag ttcgcgcacg caaacgtaaa 60

gtaccataac gttacaccaa gatggtgcta actgtgggtc aaagtcgaac tagaatgaaa 120

gtccactaag gggtgcaagt ttcactctta cgagctatgc tactagtacg ttccgaaaag 180

ggttagggga gtcggaggct ggccctctaa tctaaagcta gacgataagg aagagaatct 240

tgatctgagc tataaagaga actagaatgg agccgtgttt tataggagtg gttaattgct 300

aattttcttg ctctttaatg gcgtactgct agtcaactag ggtaggtagc tgcgaacgac 360

gacctanaat ctatagtcga agagacccta gttttcgagt cagacacggt agtagccccg 420

catagaaaat gtcagcgggt agtaataata cggcgctgac tggctgcgg 469

<210> 38694
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-D12

<400> 38694

cggacgcgtg ggtttgctgc cattagcgtg ttgcctttct tgaggaagat gatgagatgg 60

aggatgcaca ttctattgct gcatctgctg gtgacactaa tattaatctt gatgttaatg 120

tacactttgt atgtttctcc tgtgttgatg gtgaacttta cgagcttgat ggtctaaaat 180

cacaacccac accccatggc ccttcatcac ctgaaacctt gttgcangat gctgcagaag 240

tcatcaaagc tagaattgcg gagaacccta actcgatgaa cttcaatgtc atggcccttt 300

caaagaagtg aagtatactg tgatgggtgg atttcattng gcagaatacg ggtccctttt 360

cttttcagtt ctgctgagta ct 382

<210> 38695
<211> 482
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D2

<400> 38695

ctttgggctg atttatgtgc ttgtttatgt gcttgtttat gtgcttgtgg atccgcgggc 60

tgtgagtagt taagaaccta atgggtatgg cttgtttatt tcttgccctt gtccttcttt 120

cttatgctgc tctggctcct tctcttcgca actttgcgat atgggcggtc gtgatggtga 180

actagacttt catttgcggt gccggctgcg aaccggtgtt gctctttttc gttagttgga 240

cctttcgtcc cgcctctagg taataccccg cctatcagcg cggcagtccc gccgaccgga 300

gcgtgtaacg cgaggtcgcg tgggaaaggc atgctgcgac gatgaagaaa agtccgaccc 360

caaaggcgga aacgcctaca ccacaataag taacgagggt cgggattaga agaccgtaga 420

agtacataga gacgggaaaa tcgccgccgt aaaccctagt gtccttcggc gcgggttacg 480

tt 482

<210> 38696
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-D3

<400> 38696

gaacctttgg gctgatttat gtgcttgctt atgtgcctgt gatttatgtg cttgttcctg 60

tgcctggcga gttgttttgt tgtcttcgag ttacgtctct tactctggcg ctatatatct 120

tgtacatgtg attcatgaga gctgagcgat agtgagtgag tgagtgagtg aagttacggt 180

ctcntgtatt tcggtactga agaatgtttc acttcctgtg tctggtggtg tggtttggtt 240

gctggtggtg cgtgtgaggg gggcgatgat ggctgtgtct tttgattctc ttcatgatcc 300

tggtgtgtcg gagttggtta ctctgggggga gactacgtgt tcgtattatt agaagtatta 360

tgttattcat g 371

<210> 38697
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D4

<400> 38697

tggaaccttt gggctgattt atgtgcttgt agttcccgaa aagaaaattt attttattgc 60

tgtggcggat taggtggatg agtaggaacg gtgcatgtgg tgaggtggaa gaagtgggcg 120

ggttgtcatg aggcgggttg gattactggt tagggtattc ctgttaaggc taagcctgtt 180

gctgatgttg atattggtgt gtttgctggt acgaaagggt ctgataggga gattactcct 240

gtttattgta cgtcttatta gactaaaagg gaaacactaa ctacgaagac tgcaagatac 300

tttaatacag ctaggtccaa cgaggcgccg gtagggaaga tgaagacaca tacaactccg 360

gaatccgcta tcggaggtga atcgcccgac aaaacagttt gacacgggaa gtcatgcgag 420

aacgaagtta ggaagcaccc ttagtagtcc accgacgtta ccgacca 467

<210> 38698
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-D5

<400> 38698

tggcttggaa cctttgggct gatttatgtg ctctgtttat gtgcttggat cgtgtacgtc 60

gactcctctg gtcgtgtgtg tgggtaacta gagttgtggt atagagtacc gaacctatct 120

ggggctggcg ggctagtcta gtgtggtggt gattccgaga cgagctgtgt ggtgtagata 180

ggaggggttg ggggtggagg tgtggtgagg tctaaggtgc tngtgggcgt tgtctcctct 240

gcgtggtact ccgagtattc gtatgtattt cgtgtcgagt ttgatggtga tgtttaatga 300

taacgcggcg ttggggagtg gccgtggtgg tctgggtatg tttcgtgttg aggtgctcgc 360

tgtgccgttg gcggtggcg 379

<210> 38699
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D6

<400> 38699

tggcttggaa cctttgggct gatttatgtg cttgccctta cccaagcgga caaataagcc 60

acgccaagaa ggcccctacg cgatcgtaac ggtagtacta ggtaactgac gggtcacagc 120

tacgctttgt agcgtcggac ccctcgagta ggccgcggag ccggatcctc cgcatttgag 180

tgagggtact tacagatgtc gggataacgg tccttgcacc atcgtaacgg tcgttatgac 240

ggactagctc gtgtcgactt caagtaagtt aaggtgctgt ttaagagatg agatataaga 300

gatctcgtgg atcatatagc cctttagcta atacgctaag gataagcggg ttaagaactc 360

tcattccgtc gggacacgtc acgggtgaat tgcggttcaa tactgcatgc cgtcgattca 420

agtcgcgccc gacgcaca 438

<210> 38700
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D7

<400> 38700

tggttggaac ctttgggctg atttatgtgc ttgtttatgt gcttggggac gtcccgacgc 60

gcatacgggg ccctcaaaaa attccgacat aaggacgggg gaatcctccc aagaagtata 120

tacattaaac tttacgacta ggccctaacc tctcccctag ggagtgttaa cgccggattc 180

tcccaaaaaa tttgggctta cgaacacgac catattcgcc ggctacgtag cgccgtaagg 240

tccggccacc taggaatcgt cgccacacta tgggcataat taactctagc ctaacacggg 300

tccggtacat tagagtacga ctag 324

<210> 38701
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D8

<400> 38701

ggtctggacc tttgggctga tttatgtgct tggagcagtc ccgccctaac ccatttcttc 60

ccccccttag gtcccgtggt cgaaagtgag tacgtagtca attgcttgct tctcggacct 120

attgcgtagg tcggagtata atcctggtaa gcctttgcgt gcgattgttg gtgagatgac 180

tgtggcgatc gagggtgagt gatggcatca ttcggatgcg tcggaggtgc gcttggttgg 240

tgtggctcgt cttactgata tggatcgtgt cgtggatccc gtgttgttgt ctgatcatgc 300

ggaggttttg gttcctggcg gtagttaagg tagtgatgaa ttgatgtagt tggtttggac 360

tcgtggtatc ggga 374

<210> 38702
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D9

<400> 38702

ccggccagac gtacgctgcg cggcggtgac gattttggcg cggttcggtt tctaactgct 60

gtgggagtcc ctatgcaggc gcagctacca cctgtaccag atggagtgca tgcagaacct 120

gaacgcggtg tgccagtact acccgccgtg cccggaacac gcaccgaacc ttgggcgtca 180

agaggcacac ggaccctggc ttgttcacca tcctcctgca agacggcatg ggcagactgc 240

aggtgcgcct tggcatcaac ttgcagagcg gccgatgctg agtagacatc gtgtcctggc 300

ctggggcgct cattgtcaac atctgtgatc ttctgcaact cgtgacca 348

<210> 38703
<211> 263
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-E10

<400> 38703

ccgacgcgtg ggcgcggcgt gcctggcctt gtagctcgcg aggcttttca aggggcanga 60

gtgcaccaac acgaggggcg ccaacaccgt catcggcacc gagcagcagt tcccggacta 120

ccccaggtac ctggaccgct gccaccttaa cgcgtcggtg accgaagacg gccaggtgat 180

gccggcgtgc gtgccgggcc tcgtccccga cgtcgtactc gacaactaca ccaagtcgca 240

gtacaaccgg ttccttaacg aca 263

<210> 38704
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-E2

<400> 38704

gaacctattg ggctgattta tgtgcttgtg tgctgatatt attgctttta ctgaggacct 60

gaccggcgag tctaagaagc cggcggagga ggggaaggct aagcatactg gtccgctaga 120

ggttagttta gatataactt gttgcgtgta tgttgcgtac tttactattg ttgcgtagac 180

ggagcggctg tctcggcttt gagatactga gtttgagact gcgttatctc gtagagaacc 240

ggggaccgga accgcggtcc atagcttaac cggttgcgga ccccccggcg gaagaggagc 300

gatatagtaa gccctcctcg aactcagctc gtaaaggtac ttaagaccca taatagaaag 360

tccggagaag aataagtaga cccattcgaa aacagaagac ccggttaaga agcattagcg 420

tagtttagtc tagtcagtct cagttcgggc ctcgtactaa ggggacgacg c 471

<210> 38705
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-E3

<400> 38705

tggaaccttt gggctgattt atgtgcttgt ggatgtgcgg gtggatgtgc ggggcctcag 60

cactgtgagt ggttgtctca gaggacttaa gtccatgcat gtgcgtacgt gatgctacag 120

tctcctcaca gcgctattca aacctaacct atcggttgct gccccataat gctgcgatcg 180

ggaaaatttc ggtgccattt aatccaactg ttccgtagta tacttttttcc ctgttagtcg 240

gtgcaacagt gaagaggttt gtattgactg tttcctttaa tagccgtgta gttcgaacgg 300

tgaacgggat gtgtttcgca gtggtgtacc aagtgtggtg ggcgcggcgg ccatgtgtag 360

tgcgattgtc atatccgtta gtgtttcagt gtttgtcttc cctgtcnctc ctttccttcc 420

ctct 424

<210> 38706
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-E4

<400> 38706

tggaaccttt gggctgattt atgtgcttga cggtcctcga ggccgcttgt ttcagtgatc 60

ttgagtcatc aaaggtataa gttgatacac ggtggtctag ttctcttcat tctatgtttt 120

cgctatcgag gcgtgttgcg gagtccggta cttttatggt gactcattgt tacggtggng 180

tcgttctagt tgtcgagtcg gctatggtgt cgctctcttt tcctatcaag tcgttgcctt 240

cttgntgntc gtcgtggtct tctgttgtgc tgggtgcgcc tattgctgat aagtagagta 300

tggaagaaga gtggcattgt actagttttg cgcttcattc ttcggcggat ggtactttct 360

atgaggatta tacgaattat attgtctcgg cgtctattcg tattctgatg tgtcatactg 420

aggtggggac agggtc 436

<210> 38707
<211> 488
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-E5

<400> 38707

tggcttggaa cctttgggct gatttatgtg cttgtggatg tgcgggtggg ttcgatggga 60

agtctaccgg cttcttcacg ggaaacttac ggacgcatac gcatttcgag ggtccgaagg 120

actcttccac gactacgaag aataaacatg gaaatttatt cactcatact atggagaatg 180

gaactgggga cgccgacatt aaggagatat tctcatttac ggaggacgtt ccaaacgatc 240

ataaaaggtc agaccatact tagtgttata ctgtcatctc caaggaacta acagatccgg 300

gactaaacgc gtaaggtcat cctgtccggc tctcgtcgga taatcccgaa cggcctgttg 360

gtcctattga atgccacggt accgctcatg ctgattgtaa taacaatcgt atgtgtcata 420

cgaaggagct cgttaagcgg ccgaaatagc ctaatgttgt gaagaagttt agtaagaaga 480

cctccatt 488

<210> 38708
<211> 195
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-E6

<400> 38708

tggcttggaa cctttgggct gatttatgtg cttgaaagct ttaaaggttg ttggtgtttc 60

ttagcttatt acgggtgtgt agcttccttc gtctggtggt atcgctgctg ttagggtttt 120

tgtgggtcct ggtggctttc accttcgtgt atgtttccct taactcggtt atcccgctgt 180

ttggttttgg ggggt 195

<210> 38709
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D11

<400> 38709

gaagacgtta cttgcctcga atagatggat ctaattcttt caagtttata gcatcagtcg 60

tggctcttat tccagcgctg catccactcg taacactaat attaatttct ataccgatat 120

acactctgca tgtacctcct atgtttattg taaactttac aaacttcatc atctaaaatc 180

acaacctata ctccatggtg cttcatcatc tgaaatcctt ccaacatcat gctccaaata 240

caattatagc tacaattgcc gaaaacccta actcgattaa ccttaataac attaccctta 300

cccataattg acaaccactg tgatgctcag atttcattta gcagaatact gctccctttt 360

atttataatt ctgctccatt cttcac 386

<210> 38710
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-B5

<400> 38710

ggctccgaac ctttgggctg atttatgtgc ttgagacccc gatgatggcg ctggtgacga 60

atccacctcc ttctcggaac tcgacctaat tggcgacccc gcggataccg atcttgtact 120

attcattccc ttcagcgatg acgtaacgga actactaacc attaacctac ccgtctggaa 180

ccgcctaacc aacggtatct taagcccagc cctcgtaacg aaaggaatat gcgcgaagaa 240

gggaactatg ataaagccga gtgccctccg ggttttcgac gcacatgatt tcctcaccat 300

cctcgatctg tatatggcga aagggtatta catgagccta atcaaaggca atcataaaca 360

taagattcct aagagtagta g 381

<210> 38711
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-B6

<400> 38711

tggcttggaa cctttgggct gatttatgtg cttgtttact tctctgtctg ttaggagaac 60

tagttgttgc cgtcgtcgtt gtgcttatag aacgggggggc cctgcgaaga tctacaagat 120

taacgtgcac cctaaatgcc cttaagcgaa acctaagaga aggtgggtcg gtaagataga 180

tcatagggtt aggacaaggt cgaccaatta agataaaaat aagcataata tatttaaaca 240

tagacccgcc gcgtgaccca ttaataagga tactatcgtt taaactacac tcgtcagcac 300

agtgggcgac acggcctccg tcctcgttca tctgtacgag ccgttatgac acggctccga 360

agccggctcg attaatcacg tagtcgttca tcgtatcggt tcctcgccgg tctgttgcgc 420

gtctaagact tgcggcccgg act 443

<210> 38712
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-B7

<400> 38712

cctttgggct gatttatgtg cttgttaagc ctcatgttaa gctgcgtttc tatgcggttg 60

ttactgcgtg gctggcgacg gagtaggtgg ctgttaagga gtttaggacg ggtgttctta 120

ctacttgttc tcctccttat gatcgccctg ctaacggccg cgatgtgctt acttcttcgg 180

acgatatcct gatgcctatt ggtgagaaga atgttggagt gaatgttaat cttgcttgtg 240

ggcatgaggc gactgatgtt actaagatgt aggctgaagt agttcgtaag ggtattgcgc 300

tgcgtgttga tactgctgtt ccggtgctct gcgatgttgc ggatccgtct ggaggtttaa 360

tacggaatgc gtagtc 376

<210> 38713
<211> 299

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-B8

<400> 38713

acctttgggc tgatttatgt gcttgaaaaa aaaaaaaaaa aaaaaaaaac caaagcccaa 60

tgaaacaaaa aaatatggat ccgtacgtgt gcgtacgtaa ggctatacac gcctctccgt 120

gatattccag cctccccact cggttattcc cccctaacgt atcggttggg aaaacatact 180

ggtcctatag gcaaactttc ccggccttta catccacccg gttagtcggt tccattgtcc 240

ctaggtttcg gttgactgtt gccacggata gccgtgtcgg tctccctgaa aacgggatt 299

<210> 38714
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C1

<400> 38714

gaacctttgg ctgatttatg tgcttgtcct ggtaatgtgt cgctgtcgca tgaggaccgt 60

tatgcgtatg tgactgtgtg ggatcatggg gtgtcgatgg tgtagaattg gtagagtacg 120

tcggaggata tggggcctct gcctgctaat cgttgggcga tggggcttgg tgtgtctcat 180

tcgggttgtg ttcggggtat tcctctttgt gctgctcctg ttcatattta tacggatgat 240

actactgctt ttaatgggcg gcctaatcgg ggtgatttta attgtgagtc gatggcgcct 300

catgggtagc ataagcgtat gggtttgggt gtgattcacg ttggtttggc ggtgcggctg 360

tatgagtcta ttgatgatca ggttaagttt cctactctgt ctagtcctac tga 413

<210> 38715
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-C10

<400> 38715

nccacgcgtn cggtcactgt atcagttctt tatgcacttc tgggttttgg tggcaagttt 60

gggtgttgaa ggcaaggaaa ggggttacat tcacgtgtaa aacgcctcgt aaatgaattt 120

gatcagatca agtcaatctc tgctttcaag gatgttcaca gtaatactgg catctttgga 180

atccatacat ctactgatgc atcatttgtt cctaaagcta ttgacctagc agccagagag 240

ctcatttccc ttgcaactcc tggacaagtt gaccaaagcc aactggaccg tgctaaagcc 300

tcagctaaat cagcgatact ggcgaatttg gaatcacagg catcactaac agaggacatt 360

gggcgccaag atttggca 378

<210> 38716
<211> 478
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C11

<400> 38716

accgacttac gcgtccgccc acgcgtacgc tgggatgaga taatcgtttt gtgggcttag 60

tttttctact cttaccggat acatatgcaa ctgaggtaac ttttaaaaac tcatttaaat 120

cttgtaggat atgcccaagg cacggaagta ccaaagtaag agctttccat tgctcgactc 180

actagaactg ttatttgatg gtgagcacac ctccatccac ctcaccgggc acacatgcat 240

agccacacta cctacagctg gaaaaggctg agaagagctg tgctatacgc tgataccttt 300

tgttttacta aaacaaatat gttactgtga taggtcctat tcctgaaagg ggacagaaat 360

cgccttccag cgtacctcag aatggtggtg aaaatgttga cgatggaggc aacaatacca 420

gcacaatccc agcaaacagc attaggacct caaggcatag atgatctcga cacgctgc 478

<210> 38717
<211> 470
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-C12

<400> 38717

atcgacgcgg ttcggttcca gtttcactct tactgccgtc tcggctacct cccctgttcc 60

gggcttcgtc ctcgcgtgcc aggctgccat ggccgcgacg tccccttcg actgcgtcct 120

cctagacctc gacgacaccc tgtacccggg cgacaccggc atcggcgcgg ccctgaggcg 180

caacatcgac gagttcctcc aggccaagct cggcgtgtcg gccgacgagg ccgncgccac 240

gcgcgccgag ctcttccgcg cgcacggcag ctccctcgcc gggctcatcg cgctcggcta 300

cgacgtgcac ccggacgagt accacagcta cgtgcacggc aggctaccgt acgacaggat 360

cgcgcgcgac ccgcagctgg cgcggctgct gcagagcatc ccgcagcgca aagtgctgtt 420

caccaactcg gaccgcgcgc acatggagcg ggcgctggag cggctgggcg 470

<210> 38718
<211> 473
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C3

<400> 38718

gaactttggg ctgatttatg tgcttgtccg aaaggggaga gagagagaga gaagacacag 60

agcagagaga gagagagaga ggagcgggag atgtgtgaga ggtcgttgcg cagggattgc 120

agatctagtg atcgtgaagg agggacaagg ggacggttgg gactggattg actaggtagg 180

atcgggagtt ggctgccgcg tggaagaagg tatttattgt tgttgttaag aaggacgaga 240

aggttgctaa tgttgtgtgt tgtgttggcg tggagactga cattacgaag aagcataatg 300

tcggcatgaa taaggtggta cttagtggca tactttctaa tattaagtgt tctgatgatg 360

atattgaaaa ttctgtttac gagtgagcct taagcgactc gaagaagaac tctacgtaag 420

taaagtctga caagaagtcg atataggtat aatccgtcta agacgacaac gag 473

<210> 38719
<211> 486
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C4

<400> 38719

ttggaacctt tgggctgatt tatgtgcttg tttatgtgct tggttatttt tgtgtttcct 60

tctttccgct gagcttaaac ttaggccaca gagttcgctg tgttgttgtc tgtagttgtc 120

tgttgtttgg catactcttt ttgtgttctc tttcgtcttc ggaccctatt gactcggtac 180

gtcccatcgc tttgctacat ggcggtagtg ggagttgttt ttccttcgtt cttatagtct 240

acgttacgta cggttgactt acctttctag actgggaccg ttgtagatac gttgccgtcc 300

ttttgccagt cctctttccg ctatattttt ctgtcctgcc tcgtgcagcc ctggggcccg 360

atattgtccg ctcactttgc cttcacagtc cccagggccc tgagtctaaa tcttgtgttg 420

gtactctagc cgtcgtaagc ggtggtggta agtcagaggt agtaatcgta cattccgtaa 480

gaaaaa 486

<210> 38720
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C5

<400> 38720

ggtctggacc tttgggctga tttatgtgct tgtggatgtg cgggtggatg tgcgggtgga 60

tctgcggggg cgggccggtc ctcttctttt tcgtggcctg ggcctgggcc tgcgaggcct 120

cttggggcct ggccctgcgg gcgagtggac tgagacggtg gtgctggacg ccgagcattg 180

tcgtcctgct ggtggttctg ttcgggttat ggatgattat ctttcttata atgttcctag 240

tattcatggt gaggcttctg agcttaagac tacttctgac tgggagatgt agaggctttg 300

tggtcctggt cctgctattc ctcttatgga ggaggtgacg tggaatgtta ctgagggtac 360

gaatggtaag gagtcggatg gttgtaatac tattgctaat gaggtttagc tttgtggtgg 420

ttgcggaggt ggt 433

<210> 38721
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C6

<400> 38721

tggcttggaa cctttgggct gatttatgtg cttgggggtg gttaataagg atgagtgacg 60

gtgattaagg ctactcgtcc ttccgcgtct gtacgttcgt cttctgttgc tgttcccttt 120

gcgctcgtct cgtggtagta ggcgaagaag ggtggtggtg gaggtggagg tggaggtagc 180

gccagtggaa gtggaggtgg taattcgaac tttcgggagc gtctgtttaa gcgtgggctg 240

tggcgtctta agatgtagca taggaaggtt cgttctattc cacgcaataa gcgtcgtgtt 300

aagcgttctc gtgcgttatt ggggcctcat ggtaataagg gtgttcgttt tcgtcataat 360

aatcggaaaa ttaaggaagg agggtttaag cgttttcaga agacttattg tagtctttgc 420

ttgttaccgc ttttctcctc ttgaactcgg aat 453

<210> 38722
<211> 486
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C7

<400> 38722

tggctcggaa cctttgggct gatttatgtg cttgtttatg tgcttgttta tgtgcttgct 60

tatccgcttg tttatgtgct tgcttatgtg cttcgttatg tccctggcat ccgatcgttt 120

cgatccgcat ccacaagaag aatggaaaat tcgtcgttac ctaacacgga attggcgtaa 180

ccgtcggccc ccctagcgag gacagtgcca aaccaggcga ctcggacgcg aacgactagg 240

aacccaccga agtcataaag gagttaggtt ccattcctac ggccgtaaaa cccgacggta 300

cctccgggtc aggtccctag gaaacactcg ccgggaacgt aatattcgcg cggcacaata 360

cggcaaaata aggctctact agcgatttcg cccctctcac tcggcccaat tgatacgtcg 420

gcgaaggaga aggcggcgaa accgcgcccg gcggaacgga cctcagctat cataagggcg 480

actata 486

<210> 38723
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C8

<400> 38723

tggcttggaa cctttgggct gatttatgtg cttgtttgag tgttaacggt cgtatgcatt 60

tcgccatttt aagcgtcgtc gtaatgatga gtaggagtag tggcctggtt ggtgcgcata 120

gtttcttagt gacgggcttg ctggtttcta atgataatag tgtcgttgtt ggtgctgctt 180

ctttgacggt cggtgtcggg tggtcgtcga cttcggttcg tcgtctgtct gctgtctctc 240

atcattctgg tgtgcgacga ctgcgcgagg atgagatgtt gtcttttgtc gttgtccgtc 300

gccgccgggg cgctcctcct tccagtttcc cctcccctct tctcagcggt agcggtaggt 360

aagagagaat tccgcgacga cgggtgtatc gtatcgttcc ttattggcgg aggagagtcg 420

ggtaacgcga ggttttcgca aactc 445

<210> 38724
<211> 268
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-C9

<400> 38724

cgccacgcgt actccacgcg tgcggtnctt tcttgatact ccattattga cagctatgct 60

attacacttc agggacaata ttctggaagc tggtatgcaa aggctgacaa gttcgtgttc 120

agttataaat cacatggaac ctattggtga ccttaatcat gtatctgttc tacgcgagga 180

catgacatac atgcatcata gaaaatttca cgccatgatt tcaaagttag cttaaaacac 240

acaactgtat tcagcgcaca tcaatcat 268

<210> 38725
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-B4

<400> 38725

ctttgggctg atttatgtgc ttggccgccc ggacgctacg cacgtagtac gcgcaggaac 60

cttccaacca cgtcaaaccc gcgctgcggc gggccctacc aggcgcggtc ctactaaccg 120

gatcaggcct cggcccgtac atacccgcgg tcgcactcgg gcttctacac cgtctcgcct 180

atcaccaagg tcgcctaacg cggctgaacc gactcaaaaa ccgtcttaca cgacattaca 240

tagtcaaagg ccgggttact acggtccgat aagaaacgcc tagaacccgg attattcgcg 300

cacttagtac tagtctacct agccaggact ttagctcctg attcatcatt ctagacatag 360

tcggaggtag cctcccgggg aaccgggatc gtgtccggcg agtctttctt ccaccccaca 420

ctatgagtag tctgtccact angaagtgag ctaaaagtc 459

<210> 38726
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-A12

<400> 38726

aggcgttaaa gtggggtggg tttagggtgt tatgggagga cggattcaaa accctatccg 60

ggataccatg tgggagaccc taaccctaat gaggggggtga gtgatgtatt aatagactgt 120

gttaggtggg cctggcccat taccggcgtg agatagtaaa tacacggcgt agaaccctaa 180

accggtacat taacatcacc cactgtgtaa tctctttgac gaatagcaac acggtaagta 240

gagcgatcaa tacgataatg gcgatcacga agagaagtcc acatctgatg agactaataa 300

aagtgaacaa tcttggtagc acattgatcc ttcacactag cagcaagaac aaaacttgca 360

cgagcatnct catcgaacca caacttgtaa gcatcgaatt gagactcatg atgccatggg 420

atgatcaaaa tcagcaa 437

<210> 38727
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-A2

<400> 38727

ctttgggctg atttatgtgc ttgtctagac ccggggagca tcggagcagt aaggccattc 60

atccgcatga tgcatgttaa cgtgattcgc gcagtcgcga gcagctcaac gccgtagcga 120

tacgcaacgg tgtatttttg cttcatcaat agacgtccat cggagaccgt tacagtcgac 180

tccgcaaccc gccacagggt agcacgaaca cacccacggc agtccgaact cacccgcgga 240

ccaaaaaaaa aaaaaaaaaa aaaaaagggt ggttgtctca gaggacttaa gtccatgcat 300

gtgcgtacgt gatgctacag tctcctcaca gcgctattca aacctaacct atcggttgct 360

gccccataat gctgcgatcg ggaaaatttc ggtgccattt aatccaactg ttccgtagta 420

tacnttttcc ctgttagtcg gtgc 444

<210> 38728
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A4

<400> 38728

aacctttggg ctgatttatg tgcttgaccg agcgacgggt cttttaaacc cgcttgcctc 60

gccggcgcct ccgggtctca taagggagac cggcttctct cggggctgct agaccttcca 120

cattacgacg aagcccgtcc ttcccgagat tactgccgag tccactcata agtacgtcgc 180

gttcgccttg aagctcgagc gtagtaagat catttagccg ggcaccagtc ccgtcggcgg 240

ccatgccgtt ggcgctcctc gcgtcaccga cctctatttg gtcgataatt ccgcgctccc 300

ttcgaataac gttaagggag tcatagcggg agacgtcgcc aagaagtccg gctctcgggg 360

ctctcctatc agaggatcct tctcctgcac tgctacgacc ggcatttcca tcggcgtcta 420

gcggggaacc catgacgtac ctaaagcgac 450

<210> 38729
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A5

<400> 38729

cttaagaagt aaaggtgacc ccttccgccg atcctaaagc ggataggaat gaataaggct 60

gcctggtaat gggtgataga ctcggtcctg tcttgattca tcatgaccat tttaaacgca 120

agcagtatta atgaatctta actctccaaa gtccatacag atgaatagtg agaatagacg 180

taaaacacta caggggccac gtaaaatgac cgcaggagat cagcatgcgt acccgacaaa 240

ctcagcacag taaacccctt cctatatgag gccgaaccag gagacaacat atgcaacata 300

ctggtcaaag gccgctatga ttagctataa tttttccacg ggacgttgac ggatatgcat 360

ttcgagtaaa tgtaaactgg tagcaaatta gttgactcat atacg 405

<210> 38730
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A6

<400> 38730

ctttcggctg atttatgtgc ttgtttatgt gcttgtttat gtgcttcccc atgcgccgat 60

ccatatgcgg atatgaatga gaggcgagta cggtaatagg tgatcgattc ggtacggact 120

tgactcatca tgacccttgt atacctagta ctattaatgt atcgtaacat cccaaagcct 180

ctacccatca atagtgagaa tagacgtatc aacacaacat ccgccacgat gactaatctc 240

aggagatcgg atcgttaccc gacgcaatca gctcaatata tcgccaccca tatgatgatc 300

atccaggaaa caccatatac gacatactta ccatagaccg ctataactag gcataatttt 360

tccac 365

<210> 38731
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A7

<400> 38731

gatttatgtg cttgtgttct cgaaagcctg gagttgttgg tttccctgtt ctttctcttg 60

ttctttgcgt ttaaggttaa cagcccctaa gcggtaacgg tggattaggt caattaattt 120

atcgcttcct acaagtctgg cggttagcct tattcgtgtc tgactactct cgaaggcgca 180

tgggtttgca atacacgttt actcgctcta ctccacgaaa ggagacccgt tataaggaat 240

catacgattt agagttcccg gggtttccta acgctcgcca gtggcggtac taacgcttta 300

gcgacgtaga ttttgtctcg cgtcaacgtc ttcgtcgaga aaggaggtaa gaatcctacg 360

accgacccta cgacgggtgg cgccctagtc gtcggcctaa agatcgtcgt cgtctttact 420

gagtgcgcga agtcgtccac ctagaattaa gacgagacga ccaagct 467

<210> 38732
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A8

<400> 38732

tggttggaac ctttgggctg atttatgtgc ttgtttatgt gcttgtttat gtgcttgtat 60

ttgcacaggg tccgtgcccg atgcaacggg ctgcgcgtta catggaatac tgccctcgga 120

caaataggtt gaagaaaggc ttcgggatac taattcagga cggcctccag agttagcggc 180

ctgcggcgat cattttcctc ttacgagact accggtcagg gaatgatcat ttcctcctaa 240

ggatgagtag aaggagaagt ctgttggcct tcacaatacg ccggggccaa atcatcatat 300

tctatggcct cttaaaaata ctgacactct attaaatcat ctattcgcgt ctaatatcga 360

tgatgttcat gttagctaag aagccaatgg gttcgatggg aagtttaccg gcttcttcac 420

gggaaactta cggactcata cg 442

<210> 38733
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A9

<400> 38733

gggaggtggc tgatgtcgtt gtgtgatgtt ttctggaacc ggcaagatac ctaaaggcct 60

gctgcaaatg ttgttgacaa aatcctccct gcgtgatctc cctgcgagcc cttcatcttc 120

aacattctga gccaatctag agggcggcaa cagagcagct taattccatg atggatcttg 180

gaagcgatgt tcaagttcgt gctgctggag gtctcctagc aatattagac aatgagagac 240

ttcttgacac cattgagcag atggaaggtg gagcatccat tgcgatcgat tctgtggtac 300

agatctcatt ttatcctctg atggagataa attgaacaca ctgatgtgct gagatttaat 360

tatatcttct gtcatgggct gggcttatgg ccccagatgg cagtatgcca gatcagatcc 420

gaccttatat act 433

<210> 38734
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-B1

<400> 38734

tggctctttg ggctgattta tgtgcttgta ctcctcgttc gttctggtat ttgggttccc 60

gttccgcgaa taaaagctgc tgtgccttct ccggtcgacg aaacttctcc tctgctcaga 120

ctcgagttct tgttcgctcc ctggactaga cgtccggctt gactgaataa tggcgagctc 180

cgtctcgcca cccgaccgcc tcaaatgtac ggccccgccc ccgcgacgac gcgtaggcct 240

tgactcgccc tgcccgaccg acgagccgat gtactggtct gaaatgaggt cgtacggccc 300

ccgcgttcgg aggccctcga ccagtgcgcc caaggaaatc gggcgttata acccgccgtc 360

agaagcgtct gacttgctga accgacactc gttgagtcgt gatgccttgg gggactcgga 420

ct 422

<210> 38735
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-B10

<400> 38735

cgtgtgcgga cgcgtgggtt natttttttt atttcctctt taactcatcc atcagtgact 60

acgccatatg cgaagatcaa catttcttgg cgcaaagtaa caataaagcc atgtgtgttt 120

gttatgaaaa tcacataatg cactgacaaa atcctatttt tcttacccaa ctagcactat 180

actcgttgat gatgttggtc aggtgcaaca atgctgttca atttcaagcc ggccatagat 240

aacatggcgg ttgatctgca gaaggggcct aaatcatcta ttatgatcca cgaaattctt 300

gcaccttagc aggcctcggc aatgtccaag ttacacgctt tgcacacact gaccatgcat 360

gcccaacttc cctcaacaaa ggcttgattc aaaatgacac aaatccttca atgattcaac 420

gtcctcaat 429

<210> 38736
<211> 474
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-B11

<400> 38736

ccggctcacg cgtccgacca gcccagctcg ctcgtcccag ctgatcttgt cgagcaccta 60

gtttcgacct gctcgagcat cagtgtagag tgtcggtagg tgtctgtctc tcttggtggc 120

tggttgcaac ggtcatggcg acgtcgtctc gtcgggtgcc cttgctgctg ctgtgcctgg 180

gcgtgctggt gtcctgctcc ttcgcggcgg gcagcttgga ccaggagctg gacatcacgt 240

ggggcgacgg gcggggcaag gtccttgaca acgggcggct gctgacgctg tcgctggacc 300

gcacgtccgg ctccgggttc cagtcccggc acgagtacct gttcggcaag atcgacatgc 360

agctgcggct ggtgccgggc aactccgncg gcaccgtcac cgnctactac ctgtcgtcgc 420

agggcggcgc gcacgacgag atcgacttcg agttcctggg caacgtgtcc ggcg 474

<210> 38737
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-B12

<400> 38737

tcgactgcac gcgtccgcca cgcgttctcc acgcgtgaac tgacttattc gcgcacccat 60

tttcctccat ccatagcgtc actgcaaagg ggacatttca cacagaatca agtaccatct 120

atatgcaaaa caaacataca cacctagaca atactttcat tacatactca tgacaatctc 180

taaaacaact caccaacttc ttgcacccat atagcatgga tctcgcgcag gccataacac 240

tcaatcgaag acccctctac gaacgtcggc taccaataac tatctccaac ccaactttaa 300

ccatcaattc atatccccca tatactctac caaccattac acataatcaa tgatcaacat 360

ctaattgaac attcatccat tctactatcc ctgcaata 398

<210> 38738
<211> 487
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-B2

<400> 38738

ggaactttgg gctgatttat gtgcttgaaa cctcgctgtc ttaacctgga tgaggagcac 60

gttgcggact ttctcgacta ggccttttgg gtggaactct aaagttttac tcttacttgt 120

gttagtggtg ctgtaatttg tagattagta tgtgatttct acgccttggc caggaggctt 180

agtcctatct tccttcaagt gtaaattttc gatcgaagaa gagaccgagg tcaccacgtc 240

ggggggtctt acccgacact attctacacg aaccggaaac ctcaggaata ctaacaagac 300

cgcacatttg aatccaccgt tcccgattct cgaaagagcg ccaccgaagt tacgctgaca 360

cggaagcgcg cgccccccc aacctagctc ggaagccggt cgccgagata cttaccctta 420

gcatcttgta tacgcaatcg agtaaattgc gaatataccc agccttccgt agaagcgccg 480

agtacga 487

<210> 38739
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-B3

<400> 38739

aacctttggg ctgatttatg tgcttgggac atttccaccg aggatttcgc tagttccctc 60

ggctagtctg ccgatagtcc tctggaggtg gcacacagta aaaagtggat gttcctcggc 120

cctcgtacgg attcgcggta ccgaagtatt ataagtattc attgcccgtc cccgcaggag 180

tatatacctc ggtttacctc cccgccgtag actggcgtac cgacctccta ccgggaaccc 240

tgtcgaaaca cccgatccgt atacacctgg cgaaatccaa tcccctaacg atagcagggc 300

aaaccaacgg gtaaccctcc cgcccttc 328

<210> 38740
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-A10

<400> 38740

gtgttagctc ggtaatggat ttaatgtttg taaatttaga ctgatttaag ggctctctct 60

ctgtgagcac caagagacca tgaagaaatt tctctntact tattgggatc ccttacttat 120

ttgaagaaga acaagtgaca atgtagcacc atacgacact aagctgaatg gctgatattg 180

tgtgtgggca gcgagatgac caaggactga tcactggtta ctgagaatga gtaagaagca 240

attgtgctag gataggccat agatgtattg tcgctcaata ttgtttgtac tgcactaggc 300

tgtgtgcata ttctttttgg ataatatatg tttgggacat tgaatttttt atttgcaatt 360

gtctttggtg taaagaaata gatagttcgc tttgctgtgt gaataaaatg gggctctg 418

<210> 38741
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-G1

<400> 38741

cagaggaaga acgccctggt tagcctgcgc ttgtggagtg aagtcttctt gcaagtcggc 60

gtgtagatgc tgtacgcatc gatattgcct tcctcggcct cggcgatgtc gaagaccttg 120

ttgcactcct tcgacgcatg ctaatcagag gaagaacgcc ctggttgccc agagggtacg 180

atccctgcac ggagaagtac tccacgaagt actacaactt acctgaggtg cagagagctc 240

tacacgccaa tgtcaccgga ataccgtatc cctgggtaac ctgcagtgac ccagtgtatg 300

atttttggaa agattcgccg aggtccatgc ttcctatcta ccgtgaactc atcgncgcgg 360

gcataaggat atgggttttc agtggccg 388

<210> 38742
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-G2

<400> 38742

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttaaaaaaaa aaagaaaaac aaaaaaaaag 60

gggaaaaggg tcctcagctc ttgcggtatc caggtcttac tctacccctg catgcggacc 120

tcatagtcga ttcaatggat ggcacctaat actcaattac actgaggggc agacttacaa 180

cgttaca 187

<210> 38743
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-G3

<400> 38743

gctgggactt aaggactttg aggcctctct gggaaaaaag agtcagccca aatgtcatct 60

acagcacacg tcatttgccc ggtgacacgg caacgctggc agttggaggc attgacggcg 120

tgctccgcgt tatatgccaa agaactggtg acatcattcg cagtcttgtc gttgacgcag 180

atctcccagc agaagccaca tctagatccc ggcagcaaat agagaagaaa cgtgttcgaa 240

ggattgaccc tgatgcacag ttggacggta tcccgaggcg tctgcgccct caaattacca 300

gcctatcggt tgggatgaag aagatngtga ccacgcatgg tgaaactacn attagggttt 360

ggaagtttcg catgaaaagt tcgtaaaa 388

<210> 38744
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-G4

<400> 38744

gcttccggca gaaatcaagg cagtattagg atggtgaccc cgcgcctctt cgcgcgactc 60

taccggcatt gcgtcggcgc agcggctgcg tcatcagccg cggggcggca ccgggggccc 120

ctggcagcgg cggccgtgga gcagttcgcc ggttcctccc tgcctgtcgg ggttccaaaa 180

tttttgaatc atcatttcag atactcaacc agcatttttc aaaagattgg tttctcgtct 240

gtttcaccac aacaaagtga tgatgatgtt aatgagctga aagaccacga aagggcctta 300

gatggatcaa gtgaagattg tccatctgga agtattgaag gccttgatct gtcgagagat 360

gatttggtga agctagttcg tgagaaggat ggattgttga agtccaaaga tggtgaaatc 420

aaaga 425

<210> 38745
<211> 408
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-G6

<400> 38745

cccacgcgtc cggttcggct gtgtgcacca atgttaaggg ggagctgggg agcgggcctg 60

cccaagatga gcaggtgaag aagaagcggg gtaggccaag gaagtataag cctgatgggg 120

cggtgactct cgggttatca ccctcttcat cattaacacc tcactcggcc agcttgggga 180

tgggaaccat gattagtgct ccaggttctg gatttgggtc ggagggatca ggggcttcag 240

gcttgggtgc gccatcagag aagcgtggca gggggcggcc acctggctct ggaaagatgc 300

aacagttggc ttcgcttgga aagtggtttc taggctctgt tggaactggg tttactcctc 360

atgtgattat tattcagcca ggagaggacg tttgctgcca agaataat 408

<210> 38746
<211> 355
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-G7

<400> 38746

catttgaaat atatatatat atatacatgt cagtctctcc ccctgcagcc ttcaccttcc 60

acttcagctt cattccactt ccacttggat cgatcgatcg catatggcgg tactgtggtg 120

gtggtcatcg tcctgcttgt cctcccgcgc cgtcgctgct gcgctgcttt gcctgctggt 180

ggctcacggc agcgatggaa ccaggcacaa cagcaacaat ggcggtggta gtggtagttc 240

cagcagcagc aagagccaca agcaaggcgg aggggggacga gcccatgccg cgccgacgac 300

accgtctncg tcttcgtatc cgtctccggc ggctggcaac aacagcagca gcgac 355

<210> 38747
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-G8

<400> 38747

gtgaccggga acaacaactg cgagatggcc acggtggaga cctcgggcac ggcgataggg 60

tcctccggga gatgggcact acacggcaag acagccctcg tcaccggcgg cacccgcggc 120

atcgggcgtg cggtagtgga ggagctggcg gcgctggggg cggccgtgca cacatgctcc 180

cggaaggcgg aggagctcgg cgagcgcatc aaggagtggg aggccagggg attcagcgtt 240

accgggtccg tctgcgacct ctccgagagg gaccagcggg agcggttgct ccgcgaggtt 300

gccgaccgct tcggcggcaa gctcaacatc ctcgtaaaca atg 343

<210> 38748
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H1

<400> 38748

cccacgcgtc cgcccacgcg tccgcggacg cgtgggtgcg cctctacatt tcttctctct 60

ctgctcctcc gcctccgcct gatccatcca agacagggat cgccatgtcg gactcggagg 120

agcaccactt cgaatcgaag gccgacgctg gggcgtccaa gacctacccg cagcaggctg 180

gcaccgtccg taagaacggc ttcatcgtca tcaagaaccg tccctgcaag gttgtggagg 240

tttctacctc caagactggt aagcatggcc acgccaaatg ccactttgtc gccatagaca 300

tattcaatgg gaaaaagctt gaagatattg ttccttcatc acacaactgt gacattccgc 360

atgtgaaccg tactgagtat cagctgattg atatttctga ggatgggatt gtgagccttc 420

ttac 424

<210> 38749
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-H2

<400> 38749

cccacgcgtc cgcccacgcg tccgcagaaa cgagagggcc ggagcagccg cagtcccggc 60

gatcccgccg ccggtcgccc tcatacttcc tcgtcactgc cttcgtttct ctttccaaca 120

atcaagatga gccgtggcgg tagcgcgggt ggtggtcaaa gttctctggg ttacctcttt 180

ggaagcggtg agccccccaa accagcagtg gcaccagctg taagtgctcc acctgctgct 240

gcaggtgctc cacctgctga gaaaccacct gctgcaaagc ctgatggcac cagtcagatt 300

gctgctgggg ttaccagcca aaccaataac taccacaggg ccgacggtca gaacaccgga 360

aacttcctta cggaccgtnc ttcgaccaag gtccacgctt gctcctggcg gtggctc 417

<210> 38750
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H3

<400> 38750

cccacgcgtc cgcccacgcg tccggtaaaa ttcaagaaca cggcgctgct ggcgccccgg 60

agagcagcag cgggcgctgg gatatacgac gtgaacggcc tgagcctggt ggccgccggg 120

ccgaacagcg tgaagacggt gtccatcggg cagatcctga gcatgaagct ggaccgcgag 180

ctcgagatga cgaggacgac cacgacgagc gcgaggaaga agaaggtctc tctcgggcag 240

atcctgagcc agaagtacga gatgttctcc ccgctgcgga tcgaccacga ctgtgcctcg 300

cacaggca 308

<210> 38751
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H4

<400> 38751

gtgtgaacct gctggtgata tccttgtatt ccttacagga gaagaggaga ttgaggatgc 60

atgccggaaa atcaacaagg aaactaataa tatgggagat caggttggcc cagttaaagt 120

cgtgcctttg tactccacac tgcccccagc catgcagcag aagatttttg aacctgctcc 180

tgccccattg aaggaaggag gtcctcctgg aaggaaaatt gttgtgtcca ccaacattgc 240

tgaaacatcc ttaactatag atggcatagt ttatgtgata gacccggggt tttccaaaca 300

gaaagtttac aacccaagaa taagggtgga atcccttctg gtgtcaccca tttctaaggc 360

aagtgctcat cagagagctg gtcgtgctgg acgaacacaa acccgggaag tgttttaggc 420

tatacacg 428

<210> 38752
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H5

<400> 38752

ctcccccggg aatggtatcg ctcgctggga tatacgacat gtaccgactg agcctgctgg 60

ccccccctgcc caacagcttg aataccgtgt ccatacttcc gattccgagc attaagcttg 120

acccccagct tcagatgacc aggactacca cgtccagcgc gaggaataat aatggctctc 180

tcgggcttat cctgtgcccc aaataccaga tgttcttccc gctttggatc caccactact 240

gtgcctctta cacgccgttt c 261

<210> 38753
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H6

<400> 38753

gaagaaagag tgcaaggtct gcttgagacc tgaaggaccg gaggatgttc gctttcgatg 60

ttgttagttg gagccgaaga tacagttgtt tttggttgcg actttgctag atgtctctct 120

atatactgcg actgatatcc cgtgtacttt tgaagtgatg cgtatattga catctggaat 180

aacaatgcct ttcaatttca ttatctcaat aatggccctt cctgtgc 227

<210> 38754
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H7

<400> 38754

gctgcatatt atccatttgg agtcgatgtg tacttatcac cacagaaact caatcatata 60

tctcgatttg gccaactttc tggcattcaa cttttcaacc aggttccaac ttttttgggg 120

ggcaaaggac aaggcccaat atatcccggt tcaatatttc aaaaatggaa caattgggaa 180

agggataagc ttttgtttgt actttaaggc tttctgatgg ttacttgaaa agagctttca 240

cattca 246

<210> 38755
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H8

<400> 38755

gttagtccaa aacttgcttg ttcttcgatt tgccaaccga ttggtcttgc ctctttggaa 60

ccgcgacaat attgataata tacagattgt attcagggaa gactttggta ctgaagggcg 120

tggaggatat tttgaccaat atggaatcat tcgtgatatc attcagaatc atttactgca 180

ggttttgtgt ttggttgcaa tggaaaagcc tgtctccctt aagcctgagc acatcagaga 240

tgagaaagtc aaggttctgc aatctgtgaa ccctattatg cctgaagagg tagtccttgg 300

gcaatacgat ggctacaagg atgaccctac agtgccagat gactcgaata ccccaacttt 360

tgcatctgct gttcttcggg tacacaatga aaagatgcgg aagggtgttc ctttcattc 419

<210> 38756
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A1

<400> 38756

ttggtcggaa ccattgggct gatttatgtg cttggtaaag aacaatagag acaacgtaaa 60

cgacctccca ccccatggcg gccgtcgccg gttggcgtcc gaatagatat tgctatgtca 120

aaatgcctcc gatacccgat acacatagtt ttgatcaaga ggaactccgt agaatcggac 180

ggtaagtgaa gccccggaca ctccaagccc gccctgcttt agcccgaaga gccctcagct 240

aaatcagggg acacgtaccg caggtagaac gtaggctata ctccccccccc ccgggcgggc 300

aggcaggaaa gcgtcgtccc gtccatcgcg cggtccgcaa agttagaacg caagacatac 360

gggtggtagt ccatgccagg acagaccgag ttagctccat tacctccccc gaaggaaacg 420

tacccgtact cgacgc 436

<210> 38757
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-F8

<400> 38757

cggacgcgtg gggcccccgc gggaccgaaa ccctagctag ggttctgccc gccgccgccg 60

ccgccgcctt cgatcctgac gcggccaggc ttcccgcaac accgccatgg acacggggcg 120

caagcggacc gcaccggagg gcgccaacgg cgcgggcggc cccaagcgcg cgagagaatc 180

ggagacaact ggtgtaggaa gcaaatccaa gccgtgcacc aaatttttca gcactgcggg 240

ttgccccttt ggtgcaagtt gccattttct ccataacttc ccgggtggct accaggccgt 300

ttcaaagatg accaacttgg gtggaccgcc tgttccggct ccaccaggaa gaatgcctat 360

gggacctggt ggtcctgatg ggccaccttc acctgctgtg aagactcgca tgtgtaacaa 420

ggtttnaacc aacact 436

<210> 38758
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-D7

<400> 38758

aggatcctga tgaagtactt gtgaaatatg aggcccgtct ggaagatggt actgttgtat 60

ccaagtctga gggggttgag tttactgtga aagatggcta cttttgtcct gccctggcca 120

aagctgtcaa aaccatgaaa aaggcagaga aggtgctcct tacagtaaag ccacaatatg 180

gatttggtga gaagggtaga ccagcagctg gagaggaagg tgctgtgccg ccaaatgctt 240

cgctgctcat tgaccttgag ttgatttcat ggaagactgt cacagaaatt ggggatgata 300

agaaaatcct taagaaggtt ctcaaggagg gagaaggtta tgagcgtncc aacgagggtg 360

cttgtgttga agtcaaaatt atcggaaaag cttc 394

<210> 38759
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-D8

<400> 38759

aagatcctta tgacatactc gacttctatt acgaccgtct caaatatatt actggcgaag 60

gtaactttca taggggtgcg ggcacattca aagactgcta cctcctctat cgcctctagc 120

taacactgac tgaaccagtc caacttctca taatgctact cctctcatgg aatccacact 180

atgaatatgc tgagatagct atac 204

<210> 38760
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-E1

<400> 38760

ggcccccgcc gccgccgacg gcttcccggt ctccccggac gcctacgcgc cctcccccct 60

gggcatgccc cactccaacg gcgacctcca cgacgaccct ttcgccgcat ctgctgactc 120

caacggtggg cccatccttc cgccgcccac cgagatgggc cgcgaggagg gattcctgct 180

ccgcgagtgg cgccgacaaa atgctattca ccttgaggaa aaagagaaga aggagaagga 240

gctgaggagc caaatcatcg ttgatgctga agagtttaag aaagcttttg ttgagaagag 300

aaagctcaat gctgagacaa gcaagggcca aaaccgtgac agggagaagc t 351

<210> 38761
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-E2

<400> 38761

cggacgcgtg ggagaatgta tacaaatctt ttgtgagcga ataccccatt gtttcgattg 60

aagatccttt tgaccaggat gactgggttc actatgctaa gatgactgaa gaaattggag 120

agcaagtgca gattgttggt gatgaccttc tcgtcaccaa ccccactagg gttgctaagg 180

ctatcaagga gaaatcatgc aatgcccttc tgctcaaggt taaccaaatc ggatctgtga 240

ctgagagtat tgaggctgtg aagatgtcaa aacgtgcggg ctggggtgtg atgactagtc 300

ataggagtgg tgagactgag gacactttca ttgctgatct ggcagttggt ttgtccacgg 360

gtcagattaa gactggagca ccctgcagat c 391

<210> 38762
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-E3

<400> 38762

caaaaccatc catcgtctct gcccgccatc ccatttgcca atcgcctcca acccccccaca 60

ggccgcccgc cgcaaacccc tccatttccg ccgcatttcc ctcgctgtcc cagctcaccg 120

gtcggtcggg tgctggggct cgcggctcct ctcttcctgg ggcctggaag ggacggtgaa 180

ggatgcatgc cgcgaccagg agcgtctctt gcatcggcgc gcagccgtcc gtgctcatcc 240

ggtgcggcgg tggtgcgctg tccgcttcgc ccggcggcct cggaggaggg ggatgcaagg 300

tccgggtcgt cgccgtgctg cggtgctgcg cacaggagaa gc 342

<210> 38763
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-E4

<400> 38763

cccacgcgtc cgagaaacgg caacgcaata acgcaaagat tcggctgaca atggggaagg 60

ggttcgcgtc gtacttggcg atgaagacgg ggccagaggg cggcgacggc gcggcggcgg 120

cggcgcagca ggcgctcatc gacgctgacc tgcggaacct cgccgtcgcc gcgcgaaagc 180

tcgccaacca cgccttcgtc ctcggcggcg ggttggggtt cggcacttct ttcctcaagt 240

ggctggcctt cctcgccgca gtgtatctct tgatattgga ccgcacgaac tggaagacca 300

acatgctgac agctctcttg gttccttaca ttttcttcac tctgcctaat gtgctgcttt 360

ctatgatcag agganaggtg ggggaaatgg attgccgatt atttgcttgg tattctgcga 420

cta 423

<210> 38764
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-E5

<400> 38764

gacaatggtc acgatcctct tctccgttta cactgatggg cttctcagga accgagttgc 60

ggagttgagc aggatggtca aggttactca tgcgatgaag aggctgtgaa aaagccagtt 120

tggatggata gccacgatgc ccaaggttca gatatctctg ctgccactat tgcttctgtg 180

ggagatggct ctaatggttt aagcatgtca cagcctaatg ccactgaacc tactggttgt 240

cctcttacca atggggttat agacaaagac atcagctctt cactagatga aataagatct 300

gagaagactg acgatatttt 320

<210> 38765
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-E7

<400> 38765

agacacccaa gaaacacaca gaagcgagga gcactacttg ttggttggat tctcttcagt 60

ctagcagcta gtccagttaa gtttcagaca cacatgggga gcattggcag aagcacggcc 120

aactgcgcca ccgtgccgca accgccggcg tcgacaggga agctcatcac gatcctgagc 180

atcgatggcg gcggcattcg cggccttatc ccggcgacca tcattgcgta cctcgaggcc 240

aagctccagg agctggacgg cccggacgct cggatcgccg actacttcga cgtgattgcc 300

gggacgagca ccggcgccct gctcgcgtcg atgctggcgg cgccggacga gaacaaccgg 360

ncgctgttcg ccgccaagga cctnaccacg ttctacctcg agaacggccc aaagatcttc 420

ncccccccaca gaaa 434

<210> 38766
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-E8

<400> 38766

gaagaagctt tccgcggcga agaagccggc ggcgcaccct ccctacgctg agatgattgt 60

agaggcgatc gctgccctca aggagaggaa ggggtcgagc tcggtggcca tcagcaagta 120

cgtcgagggg aagcatggcg gcaagctccc caccaacttc cgcaagcagc tcactgtgca 180

gctgaagaag ctcgctgccg ccggcaagct gacgagggtg aagaactcct tcaagctgcc 240

ggccaccgac gccaagccca aggccgtcaa gcccaaggca cccaaggccg cgcccaagcc 300

caagccctcg ccgaaggcga aggccaagac cgctgcgaag cccaaggcgg cgtcgcccaa 360

acccaaggcc aaggccaagg cccaagcctg tcg 393

<210> 38767
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-F1

<400> 38767

cccacgcgtc cgcccacgcg tccgcggacg cgtgggatga agaacattct gcgcatcgga 60

aaagtcaacg tcattggaga tgtcatcctc ttcctgggaa aactctgtgt gagcctattc 120

tgtgcgcttt tcgcctttct gatgttagac acccacaagt acaagtccgc acacaacaag 180

atatcctctc cagttatccc tgtcctggta acatgggccc tcggctacgt agtcgcgaag 240

cttttctttg cggtggttga gatgtcgatc gacaccataa tcctctcgtt ctgccaggac 300

gccgaggagc accaggggaa cgcgcagtat gcgcccncag ctctgatgga aactctggac 360

gaacaaggcg aactgcagag actaactcaa 390

<210> 38768
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-F2

<400> 38768

gcaaggaaag cctcttgaga gtgttaagaa tgccctgtcc actactctct ctgatcttat 60

tccaggagat tacttcaaca taataacatt taatgatgag cttcactcat tctcatcgcg 120

tttggagcaa gtaaatgaaa aaacaattgg aaacgctatt gaatggatga acttaaactt 180

tgtcgctcag ggtggcacta acatcatgca tcctttgagt gaggcaatga ctttgctgtc 240

aacttctcac gatgcgcttc cacaaatcta ttttgttact gatgggtcag ttgatgatga 300

acggaatatc tgccatacat tgaaaactca acttattaaa agtggatcta agtctcctcg 360

gatttctact tttgggctag gttcatattg caaccactat ttcttgagga tgttggca 418

<210> 38769
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-F4

<400> 38769

gtcgcttcca gccgccgccg cgtccgcctc gccaagcgca gcagccgccg cagcacatcg 60

ctctcttgat ctcagccatg gcggaggtgg agcagcaaca ggacacgccg aagctcttca 120

accgctggac cttcgatgat gtccaggtga acgacatctc gctgaacgac tacctcgctg 180

tgaacgcgac gaagcacgcg atgtacctgc cgcacaccgc ggggcgctac tccaagaagc 240

ggttccgcaa ggcgcagtgc ccgatcgttg agcgccttac aaactccctc atgatgcacg 300

ggcgcaacaa cggcaagaag gtcatggctg tccgcatcat caagcatacc ctggagatca 360

ttcacctgct caccgatgcc aacccccatc cagggtcgtc gttcgacgcg atc 413

<210> 38770
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-F5

<400> 38770

gaaatcgatt cccccagcat ctgatctctt cggtgctaga gaaatatagg ccgccgccgc 60

ctcctcctca ttcggtgaaa ggtgcgcagt tagggttggg agatctcttg cctcacgaca 120

cgagcagcag aatttgtcga gggccgctgg ttgctgcgag aggtccgggc cttcgtggga 180

tcttgaaaat tgaatgttct aatggagtcc aagggtggca agaagaagtc tagcagtagt 240

cgttcctccc tgatgtacga agctcccctt ggctacagca tcgaggatat ccgccctgca 300

ggcggcatca agaagttctc cgctgcttac tcgaactgcg cgaggaagcc atcctgatat 360

ctctggtgtc atcccca 377

<210> 38771
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-F6

<400> 38771

cctggtgcct ctcacggccg cattcgcacc gcgatgaact acgccgcagc cgccactaac 60

gcccccgcgg cggcgcccgc ggcagcgccg gcgtcgggca cagaacacgc ccactacccg 120

tattacgctg gctattctta tccctacggc gcctatcacc aacctgcccc gcccacgtac 180

tcctccgccg tggccgccgc ctcgtcatcc tactactacc ccgtccctgc cgccgcgtcg 240

tccaccgccg cgcagtacga cccctattcg ggttaccagc actacagtca cccggaggga 300

ggaggctcgg cgggggctgg cctggtgggc tgctacagca ccgtcggcga ggcgttgcag 360

caggccgcgg tagcatcgac gacgcaggct tgctctggag gcgaccacaa a 411

<210> 38772
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-F7

<400> 38772

cccacgcgtc cgcaaaaaac ccgtatgaat taaagccatt gtctttgtct caggggggaaa 60

ggtgctttca cacattcggg taaaaggcgt accttcgaga cataagatca tgatctctct 120

acgcatgtca gcacgtcctt ggactacatg ctagtaggat caaaggtcgt ctatggtgtt 180

ccaaaacatg gaaagaagaa gaagtttatg gaagtaagca aacattatga tgcaggccaa 240

tctgacaaga tttctgaggg caattcatct aacagattcg tgaaacatct gatgccacaa 300

ttgccaaggc cacgtgaaaa tgcttccaaa gttgacccta ttagaggaaa gaaagtaggt 360

gaaacaaggt ctagattacc 380

<210> 38773
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-D6

<400> 38773

actagttcta gaccgcgctc tccgcctgct ccgtcgcgac caagctcatc tcctccgcat 60

tccgccgctg cagaggcaag caccaggaca gggcctcccc cgacgatgat gccgctgcga 120

ccagagacgg cggatgtcgc gccgacggca ggagggacct ataatgtact gcagccgcac 180

tatttttgag gatgctactc ctgaactggt tagagatttc ttctgggatg gtgattttcg 240

tctaaagtgg gatcccatgc ttgcatattg caaatctttg gatgagttcc ctcagaatgg 300

agcaacaatt gtccactgga taaaaaagtt cccgttcttt tgcagtgacc gtgaatacat 360

ctttggagga cgcatatggg aaatctggga aggacttact a 401

<210> 38774
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B2

<400> 38774

gtaaagcgca atcaaattag actgggcctt caattggagt ctgcaccaaa gctggtcaat 60

gattggatgt tgcaccgcag ctgtatatgc ccataataag ctgaaggttt atcctattga 120

tctgatccct atgtcatatc atgattaaac ataaataatg gtaacctaat tacgatcact 180

tgatgtatgt tagataccta tagatgcctt tgtggcttag tagctgggca ttgatgtggg 240

tcaaaatgcg atggtgcatt aatgcttatg tacctactat gagcttgtgg gaccataaag 300

acaaagtctt catagaagat cttaacttta 330

<210> 38775
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-B3

<400> 38775

cccacgcgtc cgagttctaa tctcaggttt ggggggaaaa ggcctcgcgg gtcgcaaacc 60

gctctctgtt gatttgggat ttgggaggcg ctcgagtttt caggtaaacc atagtttagt 120

gaccaatggc tcgtactaag caaactgctc gcaagtccac tggagggaag gctcctagga 180

agcaacttgc caccaaggct gctcgtaagt ctgcacccac aactggggga gtaaagaagc 240

ctcatcgtta ccgccctgga actgttgctc ttcgtgaaat ccgcaagtat cagaagagca 300

ctgacctgct cataaggaag cttccgttcc aaaggcttgt canggagatt gcccaggatt 360

tcaagactga tct 373

<210> 38776
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B4

<400> 38776

aagatgtcaa gccagctgag cctgaagctg cagcaagcaa ccaaactgag gattcggccc 60

ctgctcctgc tgaacctgct gatgttgctg ctccagctgc tgagaccaaa tcagacgcca 120

aacctgctgc tgttgctgct ccagtgcctg agaccaaatc agacgccgag cctgctgctg 180

ttgctgctcc agcgcctgag accaaatcag acgctgagcc tgctgctgct gctgctccag 240

ctcctgagac caaatcagta gccgagcctg ctgctgttgc tgctccagcg cctgagacca 300

aatcagatgc cgagcctgct gctgttgctg ctccagtgcc tgagacgaaa ttagatgctg 360

agcctgctgc tgatgc 376

<210> 38777
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-B5

<400> 38777

aatttccggg ccgaggctcg acccacgcgt gcgcaccaat tctagcaagg cagctctgca 60

gcttttgtag cgagcttctt ggagccttga aatgagtagt agtggtagcc tagccaccac 120

gagtagcaag taggcactat aggcactagg aagtagctaa agcagtcata accatgggtt 180

cgctgccgcc ggtggacggg cagagacgcc ccccacacgt tgtgatgatc ccgtacccgg 240

cgcagggcca catcacgccg atgctgcagt ttgccaagct cctccatact cgcggcttcc 300

acgtcacctt cgtcaacaac gagttcaatc atcgacgcca cctgcgtgcg cgagggccca 360

acgcgctcga cggcacggat gggtttcgct tcgccgncat cgacgacggt ctcccgctct 420

ttgaaagcgg acgcc 435

<210> 38778
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B6

<400> 38778

acgcacaagc gttcgctagg gatagattta gatcgagcgg ccagcttgat ggatcctgga 60

gatgatgatg aagcggaggg ggttgaccac gaatatcatg taagcactat aggcactagg 120

aatgatctaa agcatgcata accgtgtgat agctgatgac agtcgacggg tggtgacgtt 180

gctgatacat cgtgatgaac cagttcccgg cgcatggcca catcacgcgg atgctgcagt 240

taggcaagca cgtcagtctc tgagcctgct ggtgatcttg gtccacagcg agataaatta 300

tcgactgcac ctgctggtgc tagggctgaa cgagc 335

<210> 38779
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B7

<400> 38779

atctccgatt tttagtttta aggcccagct ttttggaacc gggtaggggc taatttcgga 60

agcctaaggc ccacgagtag caagttagcc ctttaagtac taacaaatgg cttaagctga 120

cataaccatt ggcaagctga ctgcaggtga cgctcataga caccaactag acatcaagac 180

tattccatac cctgcacccg gacccatcac tccaatgctg cctcatgcca agcttcttca 240

tact 244

<210> 38780
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B8

<400> 38780

gaaaagtttg aactttgatg cctaccggtt ctcaatctca tggtccaaga tctttcccgg 60

tgggcaaagg gaaatcaatt ccaaaagggt aacggattac cataatttgg taaaactttt 120

ggtttaacaa agggttgctt cctaccttaa accttaaccc tatgatcttt ctttttgccc 180

tggaaaaaaa atatggaggg ggttaaagcc caaaaatggc ggacttgtta cagactatgc 240

tgacttctgt tttaagacct acggcgatcg cgtaaagcac tggtttacat tcaatgagcc 300

aaggatagta gcgctacttg gctatgacac agggtcaaat cctcctcaaa ggtgcaccag 360

atgcgctgct ggtgggaatt cagcaaccga accttacata gttgctcata attttctctt 420

ttggggtcac atgct 435

<210> 38781
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-C1

<400> 38781

cccacgcgtc cgcggacgcg tgggcgagta cacggtggcg gtgcggcgga tggcgtgcgc 60

gctgctggac ctgatggcag aggcgctgaa catccccggc ggcgcctgcc actcagcacg 120

agggactcga cccagccgag gcggccgcta ccggcaatgc gctagcttcc gtacccaaac 180

gtggggccat actactgctt ctcgccctgc cgtcga 216

<210> 38782
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-C2

<400> 38782

cccacgcgtc cgcccacgcg tccgcccact cgtccgcaac ttctttttt ccacattctt 60

ctgatcaaga agggaatcag tacctatgac tacatcattg ccctgcgaga gcaagagcaa 120

gatgatctga gtgggcagca gagtccacag atgtctcgtg taagctccta caccggactc 180

agcagtacta gctcctttgg tccacttcgt cgtggttcat ggtgcactcc gccaaggctg 240

tttcttgagg atcagtttga tgttattcca tcggaagctg cttcttcgca taattctgct 300

acgaagagga aagaagacca ggggaagagg aagaagggct caagggccgt gaaaataagc 360

ccatgggcat tagctcgtct taacgctgaa gaagtttcga gggttgctgc aaaagca 417

<210> 38783
<211> 170
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-C3

<400> 38783

atcattgtgt cgtccttggt ccttgctact gtacggtcgt cctcaagcag tagtagagac 60

actggcataa ccgtcagcag ttagctacat gcatagtcca ggatgatctg atgttacgca 120

gagcagatgt tgtagaacag gcttttgtat tttgctgccg gttacatgtt 170

<210> 38784
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-C4

<400> 38784

cccacgcgtc cgcccacgcg tccggccatg tggaggaggg ctttagcgat ggtcctgttc 60

atggctggcg ccgcgctgct cgccggggct gccggcgccg gcgcgcagca gggcgtgtgg 120

agcatcatca cccggcccat gttccagagc atgctgagcc accgcggcga cagcgggtgc 180

cagggcgcct tctacaccta cgacgccttc atcgaggccg ccagcaagtt ccccggcttc 240

ggcaccaccg gcgacgagca gacgcgcagg cgggagctcg ccgccttctt cggccagacg 300

tcccacgaaa ccaccggtgg atgggcgact gctccggatg gaccgtttgc ctggggatac 360

tgccgggtga aggaacagaa acagacggac ccaccctact atggacgagg acccata 417

<210> 38785
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-C6

<400> 38785

cccacgcgtc cgcccacgcg tccgtccact cgtccgattg attgcatgtg ttctcctcct 60

aggaagaagt tcaaattgag ccctcttcag aattgggatc ctcgcttgga accagacctt 120

attgtataca atgcagtttt gaatgcttgt gtgcaacaaa agcaatggga aggggcattt 180

tgggtactgc aacagttgaa agagaagaac atttgtccaa caaattcaac atatggtctt 240

gttatggagg taatgcttgt ctgtggaaag tacaatttgg tttatgagtt cttcaataag 300

gtggataaat catcaatacc tggtgctctg aactataaag ttcttggtaa tgcactttgg 360

agagaaggaa agattgatga agcaatgatg gc 392

<210> 38786
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-C7

<400> 38786

tgtttacatc taacgttctt tttgttgcaa tcgaaaatca atattgcatt gtggaccatg 60

ggctactgaa gacatatgtt ttgtttacac aaatgaaata gaaatctgaa aaaaaaatgt 120

tctgtgaaca ggttaccatt agcctggaac tgcgacaaaa taagaataat cgaaaccaat 180

aaagcctagc gttttgttgt tctactcggt cattttcgtg tcctaaactt gtaattttgc 240

tggaatattg tacagggcat ctgatgcaag gtgcaaaaac tggtgtttgg tctgcggttg 300

ctttcaaaga gttgtgtgcc ggttgcttgc acatctttaa ctctgggtct tgaaagcana 360

tcagaagtat ttatggttta aggaaatatg ca 392

<210> 38787
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-C8

<400> 38787

ggcgtctgca catgcagcgc tcgaatattt ggcttatgat cttgagattg cttaaaatgc 60

cgtggtacaa tgatgactgg tgagcgacat tcatagctgg tgcaacacta tgttccttta 120

ccggaggatc ttcggcagat aaatttgggc ggacaagaac attcatcctg gatgcagccc 180

cactggctgt aggtgcattc ttgagcgcaa cagctcaaga tatccgcacc atgattattg 240

gtcggttgct tgctggaatc gggattggga tctgatctgc acttgtaccc ctttacatat 300

ctgagatatc accaactgaa attctgggaa cacttggttc tgttaatcaa ctctttatct 360

gcattggaat tcttgcaact tt 382

<210> 38788
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-D1

<400> 38788

ccaacacgtt cgatcgaaca aggacggatg cctggccttc tctggtaaat taaacgtcgg 60

ataccatggc atatagacat gctgcatccg gacacagagt tgacagaacc aagggtctgt 120

caactggatt gtaggaatac acatagcttt ctccgatgcg gacattcatg agttgggttt 180

caacgttgta tgcgaggtgt acaacctgat gtagcacatg gtctactgcc tctagtaaaa 240

catctagggc acattgagcg gacacctgaa ctaga 275

<210> 38789
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-D2

<400> 38789

cttggtgtgg tcaatggtgc gcttgaatat cttgcgaagg atcttgggat tgctgaaaat 60

gccgtcttac agggatgggt ggttagcaca tccctagctg gtgcaacact aggttccttt 120

accgggggat ctttggcaga taaatttggg cggacaagaa cattcatcct ggatgcagcc 180

ccactggctg taggtgcatt cttgagcgca acagctcaag atatccgcac catgattatt 240

ggtcggttgc ttgctggaat tggtattggg atctcatctg cacttgtacc cctttacata 300

tctgagatat caccaactga aattcgtgga acacttggtt ctggtaatca acttttatc 360

tgcattggaa ttcttgcagc tttggtagct ggattggc 398

<210> 38790
<211> 61
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-D4

<400> 38790

attcccgtcg cacgcgtctc tcttagcgta tcaagatgct gtcatatccg gatctgtgtc 60

a 61

<210> 38791
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-D5

<400> 38791

cgcggaggag gcacaggcgc cgatctaaag acgatggccg ccgcgggctc ctcgccgtcc 60

ttctcctcct cgagtaagcg gctggaaggg aaggtggccc tcgtcactgg tggcgccacc 120

ggcatcggcg aggccatcgt tcgcctcttc atggagcacg gcgccaaggt ctgcatcgcg 180

gacatccagg atgaggccgg gcagcagctg cgcgacgccc tgggaggtga cgcgcagggc 240

gccatgttcg tccactgcga cgtgacgtcg gaggaggacg tgagccgcgc cgtggacgct 300

gcggcggagc ggttcggcgc gctggacgtg atggtgaata acgccggcgt gacgggcacc 360

aaggtgacgg acatncgnac cgtggtactt cgcgggaggc gcgcagggtg ctc 413

<210> 38792
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H10

<400> 38792

gcccggcgaa tccaccttgc ccgcagcgtt ttcggcgagc agcacccccg tagacgcctg 60

gggggagccg atcccgactt ggtcggtgct gatggcggcg tgtaagcaca tcgcggtccg 120

gtgcctcccg gagaacgttg ccttcctcaa ctgcaagaag aaggacccta acccctagaa 180

gtgcctcgag aagggccgac aggtcacacg ctgcgtcctt agcctgttga aagaacttca 240

ccaatagtgt ccctatgaaa tgtgtggata tgctggttgc atgtatgact acactaacga 300

attcgacttc tg 312

<210> 38793
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-H11

<400> 38793

tcggtccctt cggcaggtct ttgttggggc cttcactggc gactagcacc caccaattac 60

tgggtgtaca tctgtatgct catggccttt gcttggtccc acccttatcc caacctattg 120

atggaatctg agaatttggc aaggtctacc aaaggggtcg tagaaattta aattccaagg 180

gatagtgatc ttctggtgca tctagcagca caagttggga acgctctaac tgagcgccat 240

gcatttatca acgagttcat taaatttgnt gatgatgtag aaatttattt gcactacatc 300

ctcaacatat accacgtgtt aggcaagatg gtcgtgcatc atacttcttc catagaagtt 360

ttgagcccta catcaatgag aatgatgtaa ataactgctg gaagaaaatt ggaagtacta 420

gatccatcat cctgnatgga acac 444

<210> 38794

<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H12

<400> 38794

cgcgtcccca tcccaattca caacgcattg tcgtctccca caacacggtc cactaaccgt 60

ggcgacagcc tcggctcgtt tgatccccgc ggggagctct agttccgtca agcgtgcgta 120

ccggcgtccg gatccgggac cgaagatgac ggagtccctg gtgcggaaca agccggggat 180

ggccagcatc aaggagatgc cggtggtgca ggacgggccg ccggcgggcg gtttcgcgcc 240

cgtgcgcttc gcccgccgga tccccacctc agggcccagc gccaccgtca tcttactcac 300

caccttcggt gctttcgcat atggcatgta ccaggtcggt caggggaaca aggtccgtcg 360

ggcgcttaaa gaagagaaaa ttgctgctcg cagtgctata c 401

<210> 38795
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H2

<400> 38795

actgcagggt ctctagaaga aagttaagaa gatttcaaat aaatcagttg aaacaggcaa 60

aattgtcatc tttaaagtgc tcaaacatgt acacacatac atttgcatct catccaaata 120

catgtccata atatactacc acatctacta catcattatt acacacacta tcactatcat 180

acaatcttat actttacctc attatgccca ccattccatc ctactaaatc cacaccta 238

<210> 38796
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H3

<400> 38796

cccacgcgtc cgcccacgcg tccgcccacg cgtccgaccg tggtggcgac gagctccgtc 60

tggtgcaccg cctccgcctt ctggcccctt ccgctgaggc ccgcgtcggc gcgttcctgc 120

catagtcggc aaccaatagg agcgtaaaac tggagctagg gattgaagct gttgcaggta 180

catgtcatat ataaatggac atgggcaggc actcccgctg agggtgcttc ttggcttcgt 240

ctgtagaggc ttgctgatat ttggcatagg atattgctaa tttgtgggta tgatgcatgg 300

attatttgag atctttgagc cgatgaagca atcattatca tctcaaaggg agggtattga 360

tttcatggcc gtgattcccc cttttccagt caaagccatc caagccgcaa ttacttcagg 420

gacagggtgt tcactg 436

<210> 38797
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H4

<400> 38797

cacacgcgtc cgatcacgcg tacggctagc taagaatgcg acgacgggac ttgcacgaac 60

gatgctgctg gaatgcctaa gctcgaccag tcgctcgtac tctgcctgaa ggccgattcc 120

gccgcggcgt ccgtggcgcg gaccttcttc gactgcgagc agctcctgct gcacaatggc 180

gacaaccact acctgctgac cacggagcac gccgacacgc tcccctacag catcaatcta 240

tccacgcact aagtcacagg ccgtttcttc aacgggctca acatgcacga catcgtcagc 300

gagcac 306

<210> 38798
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H5

<400> 38798

tccgccgact ccttcagtca cactttgcac gtttactgac accaacttcc ttacggtaac 60

ttggtgcaca ttaaaataag gcctatcctt gcgaagaaaa ttatccatga tacttattaa 120

gatattcccc atcagaattg cgccacatac ggtcgccatt attacacacg ctattactat 180

cataatatct attc 194

<210> 38799

<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-H6

<400> 38799

ggagggtggc gagaagaagg gtaagaagaa tgcaaagaag tcggtggaga cgtgcaagat 60

gcgacatctt taaggtgctg aagcaggtgc acccggacat tggcatctcg tccaaggcca 120

tgtccatcat gaactccttc atcaacgaca tcttcgagaa gctggcggcg gaggcggcca 180

agctggcgcg gtacaacaag aagcctacca ttacgtcccg cgagatccag accttcgtcc 240

ggctcgtcct ccccggcgag ctcgccaagc acgccgtctc cgagggcacc aaagccgtca 300

ccaagttcac tagcttctac gcgagcgatg cgacgtgcac tcgtctnctc ttcttgcagt 360

agtgcaatag tagta 375

<210> 38800
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H7

<400> 38800

cccacgcgtc cggacagcta gcacgccgga gctgggcctg gtgcaaagga gaaggtgcgc 60

tggcagggag gatgggactg gtcggtgtgc aaccgggagc aggtgccatt gttcaaagaa 120

aaggaagcta aggataagga ggtccatcaa agtccctgca ataagcaaca aggttgcaga 180

cattccagct gatgaattct catggaggaa gtatgggcag aagccaatta aaggatcccc 240

acatcctagg ggttattaca agtgtagcag tgtgagaggc tgccccgcga ggaagcatgt 300

cgagaggtgc gtggacgacc cctcgatgct gattgttacc tatgaaggtg accacaacca 360

caaccgagtt ctagcccagc cagcctgatc tttcaggcta tcaattcaag atcggttcta 420

cagtcaccct 430

<210> 38801
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H8

<400> 38801

agatggccga agatgggaac tgtctattca gagctgttgc tgatcaagtt tatggagacg 60

gagaagctta tgacatggct aggcagatgt gtgttgatta tatggaaagg gaacgggatc 120

atttctctca gttcataact gaaattgaaa gttttacatt atactgtaag aggaaaagga 180

gagataaggt ttatggcaac aatgttgaga tccaggcatt tgcagagatg tacaatcgta 240

ccattcacat atattcctac agtacagagc ccattaatat ttttcaagga agctataaca 300

cagac 305

<210> 38802
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-H9

<400> 38802

cccacgcgtc cgaataaagg gagggtgact gtgaaccttg gaggtcgccc caatagcggg 60

gtccatgccc agcccacccg atttttctca aatgccaccg cttgttccaa tccaacggac 120

cagatcgctc caactaaccc ccacacacaa accctactca gctccaccta tatagcctat 180

tgccctttcg gcgcgcctcc attcgcacca ccgacgcgcc gtccaaaccc tagccgacgt 240

cgacggcgtc gccgacatgg tcgccgtcaa ccggccgctc gtctacgtga aggccctaga 300

gggcgacatg gtaaccgacg cccccggcat cgccttaccg nccgtcttcg gggcgccgat 360

ccgccccgac gtggtcaggt tcacccacaa gctgctgtcc tgcaacaagc gccagcccta 420

cgcagtc 427

<210> 38803
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A1

<400> 38803

caaaaagcgc ccgattcgcc tcgcaaaatc tccgccgcca tcacctacct actcacagaa 60

gttccgcctt cctttcctcc ggcgcgcgcc gcgcctgtcg ccatggtgaa gcgatggctt 120

cccctcgagg ccaaccccga cgtcatgaac cagttcatgt ggggactggg ggtccccgag 180

gacgtggggt tctgcgacgt gtacggcctc gatgacgagt tgctcgccat ggtgccccag 240

ccggtgctcg cggtcctact tctctacccc caggaccgga gcaaggagtc ccaagcttca 300

gctacctcgt cggtggagac caaggagccc agcaagaacg tatatttcac aaagcaaact 360

gttgggaatg cctgtggcac agttggtatt attcatgcac tggggaaatg ctac 414

<210> 38804
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A2

<400> 38804

cccacgcgtc cgcccacgcg tccgcccacg cgtgcgtcca cgcgttcgga caaatcgaaa 60

gccaagagga gatggccatt tggaaagtcc aagcactcgg agccttccat atcgacggtg 120

ccaggcactg ctccagcagt agctccgttg ccatcaccac cagcaactca gccccactct 180

ctggagatca aagatgtcaa tccagttgaa acagacagtg agcagaacaa gcatgcctac 240

tccgttgcgc ttgcgtctgc tgtcgctgct gaagctgcag cagttgctgc ccaggctgct 300

gcggaagttg tccgcctcac agcagttacc acggctgcac caaagatgcc tgttagttcg 360

agggaagaac ttgccgccac caagat 386

<210> 38805
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A3

<400> 38805

cccacgcgtc cggagatctg gcgcacgaac taccttgtgc agctgagagg tccacttacc 60

ggctacaacc attggcaatg cgtagagatt cagagatact catgttagga aagatgctga 120

tggtgctgga acatgtgacc gagatataca tcctagagct gaacctgagc aatacttgac 180

atccgatgat gcagctgaac tcgcctattc tggagcgcat gaattgcatg cactatcgat 240

gcggacagct agagaaagcg atgatcctgt gagggctaag aattc 285

<210> 38806
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-A4

<400> 38806

gagctggagc aggaagccaa aactgctgcg aatccaaaac tctgtgcgtg ccttcccaga 60

ccatcgtctt ccaggagctg gagcaggaag ccaagtgggt cgcggccgtg ctgtcggggc 120

gggcgacgct gccaagcgag gaggacatga tggcgtccgt gaggagccac taccagctaa 180

tggaggaggc cgggaggccg aagcgccaca cgcacgcact ggcagctcag tgggtaagcc 240

aacgctgaca acgtgtgact gtgtgtgtgt gtgtgtgtgt taccggcccg acgctgcagc 300

ctgaaactgt gtgcgttcgg accaggcgga gcacatgaac tggctcgcgg accaggtcgg 360

cgagcctnca gtggagccgt ggaagtgcga gatgttcgat aaggtacttg cgagcatctt 420

<210> 38807
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A5

<400> 38807

atcgagaccg gctgcccgac cccggtccgg cgatccctct gcaccccttt ctttgcgctg 60

ccagccccaa tctctcgcat ccctgtcaac catggcggcg tcagcaggcg gaggcgcggt 120

gcgcgcgctg tcccagaagg agcaggacat acagatgatg ctcgcggccg acgtccacct 180

cggcaccaag aactgcgatt tccagatgga gcggtatgtc tttaagcgtc gcaccgacgg 240

catctacatc atcaacctgg gcaagacatg ggataagctc cagctcgcgg cg 292

<210> 38808
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H1

<400> 38808

cccacgcgtt cgcccacgcg tccggagaaa gatggcatct gggctgtgct agcatggctt 60

tgtattattg ctttcaagaa taaggacaac cttggaggag ataagcttgt cactgatgaa 120

gatattgtcc gtcagcattg ggccacatat ggtcgccatt attacacacg ctatgactat 180

gagaatgtcg atgctggggc tgctaaggag ctgatggcaa acctagtaag catgcagtca 240

tcactttctg atgttaacaa gttgatcaag gagatccggt ctgatgtttc tgaagtagtt 300

gcagctgacg agtttgagta caaggatcca gttgatggct ctgtgtccaa gcaccagggc 360

atccgatacc tcttcggaga tggttcacga ctggtgttcc gtcta 405

<210> 38809
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A6

<400> 38809

cccacgcgtc cgaaaatatc cccaaaccct agctcccgat ctcgatggcg aaccctcgcg 60

tcttcttcga catgaccgtc ggcggcgccc cggcgggccg gatcgtgatg gagctgtacg 120

ccaacgaggt gcccaagacc gcggagaact tccgcgcgct gtgcacgggc gagaagggcg 180

tgggcaagtc ccggaagccg ctccaataca agggcttcac cttccaccgc gtcatacccg 240

agttcatgtt ccatggctgc gact 264

<210> 38810
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A7

<400> 38810

ctctcctcta ctagacttgt tttttccgtt catcgtttcg tttgttccac ctgcgcaact 60

gcgacgggga taagtacgtc ttccagatga cgacggcggc atggccgcgg ccacgcttcc 120

tcgtcctccc ccagcctgga ttcctccgct cggtctgcca cggcctctgc tcccgctgtc 180

tcttctgctt cctgctgctc ctcgccttcg cctgcagctc cagctccggg cgggtggtgg 240

tcactagctt gcctggcttc gacggcgacc tccccttca cctcgaaaca gggtacgtgg 300

aagtggagga agacgccggc gtggagctct tctactact 339

<210> 38811
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-F5

<400> 38811

ggcattcagc agctgccagc ggacgtcctc gtgtcggtga tctcccgcgc cgccgcgagg 60

gggagggatg cctgcatcgc cgccacggtg tcgccggcgt tccgcgccgc ggccgactcc 120

gacaccgtgt ggtcacgctt cctcccggct gacctcgccc cgctcgtcta cccgacgcct 180

gcgccaagat ccaagaagga gctcttcctt cgcctctctg aaacccatgc cctcgttgaa 240

gatggcctca tgagcgcgtg gctggacacg gagaccggcg ccaagtccta tatgattgcg 300

gccagggcta tggctattat ctgggtcgac acgccggact actggcgctt gatagtgcgc 360

gaagactcaa ggatgctgtc aggtgacacg cgctatgcag nctacctggt attcaagatg 420

gccgatgac 429

<210> 38812
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F6

<400> 38812

cccacgcgtc cgcccacgcg ttcgcccacg cgtccgcgga cgcgtggggt tcgggataga 60

ggtgcatggc aatgtgattg gagcagtgga aacttgttta gagtcgtttc atcggtatca 120

caagtatcta aatttttcgc atcctactat cagctccaag attgatccac atacttgtgg 180

atgggctttt ggaatgaaca tttttgactt gatagcttgg aggaaggcaa acgccacatc 240

attgtatcat tattggcaag agcaaaattc tgacctattg ctctggagaa caggaactct 300

tcctgcaagc cttttgacat tttatggcct gatggagccc ctagaccgca gatggcatgt 360

cttgggtctc gggtatgatg tagacataga tgatcgtctg attgagagtg cttgctgtgt 420

gcactataat ggaaacatga 440

<210> 38813
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F7

<400> 38813

cccacgcgtc cgcccacgcg tccgatctgc tgcccgctgc tccccccctct ctgtgcaagc 60

tggcttgtag ctggctgcat gctcctcgcg cgagccgtgg tgatggagca caggaagaag 120

tcgaattatc ttgttgccct cgtcttggct tcgctcttgc tctccgccat ggcaggaggg 180

catcggaaga agcttctgaa caaagacgac gcatcagaat caatggagct atcggaatcc 240

acgcagcagc tgcaggaaga cgacgaaatg gctgtggtgg tccacgagag aattctcagg 300

caggcgaaga tgaacgacta cgggagctac gactcttcgc cgaccatggc taagcctcac 360

ttcaaggaca tacctaacta gccagcccac tatatacatt gagaggtcga tatatgttgc 420

ttgctagtcg agtcg 435

<210> 38814
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F8

<400> 38814

gtcctgcgct ccagcagctg ccacagagac atcagagagc ggtcctcctt gtgagtctga 60

gctgaagagg aggaggagga ggaggagaag cagcagcgca gccggaggag ggagagcgaa 120

gatgcgccgc gtcgcgctgt tgctcgtcgc cgacgtgtgc gcgctggcgg cgccggctgc 180

cgcggtcgtc actgacggtc ttctcccgaa cggcaacttc gaggatggcc cgcccaagtc 240

ggcgctggtg aacggcacgg cggtgtcggg cgcccacgcc atcccgcggt gggagacgtt 300

cggcttcgtg gagtacatcg agtcagggca caagcatggg gacatgctgc tggtg 355

<210> 38815
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F9

<400> 38815

gtcccttgat gcatgaaatt tatgaagatt tgactgcttg ttgtcaaaaa aggcaacact 60

gctgagttct tggataacac tgaacttttt ttttggataa atatccttcc ctcagtgttg 120

ctataggcag tttctcaaaa gcatcgctta gttttgcttg taccttacga tagacaacga 180

ctattgtgca atcaggtcta aggttcaaac gagtctcctg gtctgttaga tcatgatcca 240

accgtatatc atatttaaca cttagaccct tacatcacca actcatgaag ctttataaaa 300

aacctaacaa accacagtca tatctacccc taaggtctaa ttgcacctaa ggatcaagag 360

actcgcttgc acacttgcac ctaaggtcta attgcacaac aatcggtgcc ccttactgca 420

ttacacaaat gacattttat ttttaccccct 450

<210> 38816
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G10

<400> 38816

tccttccgcg agaactccgc ctacatcgag aacgttttca acaacgtctg gaagttccac 60

ttcgtggggt tctacaactg ctggaacaag ttcgtgggcg accacacgac gcacgcgttc 120

gtgttcaccg acaaggcaaa ggactcgagc cgtgtgtgtg tgtccttccg tgtcacggag 180

cccttcaaca tgctgtactg gtccacggac ttaaacc 217

<210> 38817
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G11

<400> 38817

gttgtcttaa catgtatgtt tctcgtcttt caaaataata ataagatgtg agtctgatag 60

aaaactagga tgtgaaaatt ttatatctat aataatgtat gctattcgtt ttttgtgcag 120

ttattgtaca ttaccatttt atcgaatttg tgtgtcattg c 161

<210> 38818
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G12

<400> 38818

cgccggcata taccacgatt ttagtacggt ttataaatgc ttcattccag ctacttcaag 60

cggggacatt tgctcatcat actgcagctg atgttatcat tataatcgcg gaatcagggc 120

agatatccaa tgacctgaaa ccaaggttaa aacatgtcac atgcataaac agcatctgac 180

gataccattt gcctagcttc ttgagacggc tatgccagac atgatgccct gctgaactat 240

gacttgaccc 250

<210> 38819
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G2

<400> 38819

cccacgcgtc cgggacatca agggcacaga taatggctta ccgaggttaa ctgcctgggg 60

cggttgaggc atccaaattt ggtgaagttg atcggatatt gctgcgaaga tgaccatcgg 120

ctgcttgtct acgagttcat gtttcgagga agtctagaaa accacttatt ccgaaagaca 180

gctacgccat tgccctgggg tactaggatg tcaatcgcgc tgggagccgc taaagggctc 240

gcttgcctcc acaacgctca aaggcccgtc atctacagag atttcaagac atcaaacatt 300

ctgctggact ccgattatac tgccaaactg tctgactttg gcctcgcaaa agatggccct 360

gaaggtgatc agacgcatgt gtcgacacgg gtgatgggaa cctacggtta tgcttgccct 420

gaatatgtga tg 432

<210> 38820

<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G3

<400> 38820

atttatctac agatacggaa tcataagatc taccgtttta ttgatgatcc agtgcttcag 60

cggtctacag taagtgatga tgagcatctg gcaggttata agctcccaaa gttggaaaag 120

agggtgaatt acattcagat tgtgcatcgt catgaagatc tggaccatgg aaacaataac 180

agcttgacat cttggaaacc gtacggtgtt cctcttcttg cacaaatttc tcgcaatgaa 240

attgtgacgg gttttgatat ccatgagttg gtccataaaa tgcttgtgac cgtgctaagg 300

aatacggact ctctgcattt ggctgttcaa agatcttgtt ccacaagaac tcatagttat 360

cataccgaca gcagcaaatt tcagcttctg gtggttgatg atagcaacac agtcatttga 420

aaatccaatg 430

<210> 38821
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G4

<400> 38821

acaagatcta gggggggttc cctacggttg gtgtcaggaa gattgtaaac cgcggtaact 60

ggtcatgcgg aactgctgcc ttgccccccg cgcctttctc ttccatgttt gctgctacaa 120

tcttgttgtt gggcattgca gtgcacggtg cacacttgtg tagcccgcct ccgagaattc 180

tcctgcctct gcatctggtc agttcaaaaa tgatttgcat gttggctatg ttgtgtaagc 240

tctatttatg gtggtctcgc tgagacgggt atttggcttc gcagttatct agct 294

<210> 38822
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G5

<400> 38822

cgctggaccg cacgttcggc tgcgggttcc attcccggca ccagtacctg ttcgggaaga 60

tggacatgca gatggggctg gtgcgccgca acttcgccgg caacgtcacc ggctactacc 120

tgtgcttgca aggcggggcg cacgacgaga tccacttcga ggtcctgggc aacgtgttcg 180

gcaagcccta cacgctggac aacaacctgg tcacccaggg gcataggcca ccggaggagc 240

aagttcagct tttggttcaa cccaacgtcg acttgcacaa ctacttcatc atctgaaccc 300

cagcacgtca tcttcatcgt ggacgacatg ctcatcaggt acttccgcaa cctgtatagc 360

aaggtggtga cgttccccaa gagccagccg atgcggctct actccagcct gtggaacg 418

<210> 38823
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G6

<400> 38823

gcagaaacgt gagaaggagg tgcatgctct tctggataaa ctccctccgg agagcattat 60

ggtgaacccg aacacgatag ccactgtacg agctccgaag aagaaagaga agaagaccaa 120

ggaggagatt gaggaagaga tggcagatgc cgtggaggcg gccaagaaca ctgagcgcaa 180

gaagaagacc aagggcagga gcaaaccgag caagcgagcc aagaagaaag aggaagacgt 240

tttcaaggcc aagaggccct tcctggagca atctgataag gtggatgggc gacctgacaa 300

gaagcagcgg ataggtgaac tcccaaaggc cttgcaaagg tttgccaaga aaccacaatc 360

ataatcgtcg tcgttaacac agggttggga tttcacattg gtatttccaa tatgtagaat 420

ttccgcgtga gcacagaaga at 442

<210> 38824
<211> 494
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-G7

<400> 38824

ntcgagccca acgtcgtctc gcccacgacg tctcggtagc ttggaagtag aaagctaaca 60

tgnncttgca acaaatgctg tngnnctgcg tatgctcgag tgagactcta taggaggggg 120

tttctctgcc catgtgatat gtagtcacgg tgtgcacccg aactattggt gtccacttgc 180

tcgaagattt tacctctcca tgtaggaagt cacggagagc tcgactgttt cggccatgtc 240

cggaaccttc tacagctcag caaanattgg ctcgttggaa aagggcacgg ctcaaaggcc 300

gtgatgaagt cttatgtcaa aacagttgtc tgactacata attgcagcac ttgttgaagc 360

actgcacaag gagccagaaa cagaaatgtg ctcatccatg ctggattctt taaacgagtg 420

tatgcagctt tcgggtcttt tgctcgatga agcccaagta cgagctatca tagatgagat 480

taaaaacgtc atta 494

<210> 38825
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G8

<400> 38825

gccaaaatta aaaacctgtg tctaacagtt atgtagtcta ggctccatta atcgaacgga 60

ggccgtaatt tcttggaaaa aaaacaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaacaaaaa taaaaaaaac caaataaaaa aaaaaaaact 180

gaaatatcaa aactaacaga acaaaaaata attagaaaga aaactaataa agaccaa 237

<210> 38826
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-F4

<400> 38826

cccacgcgtc cgattttgat aacacactac tagagttctt ggtgagtgat ttcaagaaaa 60

cgcgagggcg ttgatctgtc aaaggataga ttggccctgc aaaggcttcg tgaagctgct 120

gaaaaggcaa aggttgaact ttcatcgact tctcagacag aaatcaatct gccattcata 180

acagctgatg cttcaggggc aaaacatttg aacattacac tgacaaggtc gaaatttgaa 240

tctcttgtac acaatctgat tgaacggact agagatccat gcaagaactg cttgaaagat 300

gccggaatat ctactaaaga ggtggatgaa gtacttcttg gtggtggaat gactaaggtt 360

ccaaaggtgc angaggtagt ctctgaaatc ttcggaaaga g 401

<210> 38827
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G9

<400> 38827

gaattcgctc tccgcgaggt cggcacggta cgccacctta ccgttgagga gttggcccgc 60

tcacccatcg ttcaggagct gatgcgccgc caagctttca gtactcccaa ctccaactgc 120

acctcaaatt cccaaagcgg cacctccacg ccgatcgaga gatcgagctc aggttccagc 180

aacggtgtgg ggcgcgccaa gcggcgtagc agctggctcc gcagcatccg ctgcgtagct 240

ggctccttcg cgtcccactc acgtgaccgc cgcagcagcg acgagaagga cgcgtctcca 300

gagaaaggcg ggcaccactc agctccacg acggatgaca gccaggacag tgttccacgc 360

catggcccgg cccgtgtcaa ggtgcggcag tatgggaagt catataagga gctcagtggc 420

ctgtttatga cacaggagat ac 442

<210> 38828
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D9

<400> 38828

cgaccgactc ccgcgcgctg cacgcgactt ccggacgcgg cgtctgctcc tcggcggcga 60

ccgccggtgc tgcactcacg gtgctgctcg ccggctacct cctcctgctc gtgccatagc 120

tgtcgcctag ctcgttctag accctctgtc aagttgtgcc accagtaaga ttcgatgtgt 180

tgttgctctt tctagtacgt gacgcgacag acaatttgct gctggtgtcc tccttgaagt 240

ccatgcactg ggtgatcact gtatgctatg ggtactagat gctagggcat gtgttaagct 300

aagctaaggc tatggggtat cagtacccta cctgtcaaaa gacggcactc aag 353

<210> 38829

<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E1

<400> 38829

cccacgcgtt cggactggcg agccaaaggt attgatatta tatacgacaa gacctataat 60

ggcgattatg agctagataa cggggaggaa aacatgagat ttactgaaga aacacgtcaa 120

taatatgtag acctagcttc tgcagatata ctgaccacag caattaggtc gtaaatgaac 180

gtatcgattg aaggctcgac agagttagtc gcaccggatc taacatcact gtaatatgat 240

aaagaccttg aactgctgat cagtgatctg actgtaattg acttggatga tctgaaggtc 300

aacacagtgt atatagcata ttcagatgaa tcttcggtga tacagacgtt attgaaaatt 360

gttagatcgt ccagtacgta ggaca 385

<210> 38830
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E11

<400> 38830

ccataactga gccacgcctc ggctggttta atgaaactgc agctactatt ggagccatgg 60

gaaggattga catggatggg actttaaata tcaaggtttc tggccgaaaa agcttatgga 120

aggttgctcc tggtgacgct gagaggcttt cagcttttga ggttggagat tgggtccgac 180

caaaaccaag tattgggagc agacctactt atgactggaa tagagttggg agaatcaaca 240

ttgcagtagt ccatatcatt caggactctg gatacttgga gttagctggc tgattcagga 300

atgggaagtg gctaacccat aacacagaca ttgagaaagt gcagacatta aaaattggtc 360

agcatggtcg gttccatgct ggaatttc 388

<210> 38831
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E12

<400> 38831

acgcgtacgg gtttatcctc aacagacaca tcatatgcac ttccagaata ctacatatgc 60

acagcggcaa acccaaggtg ctttgatgca acctgtacat gtgtcccacc aacaaacaca 120

tgtttctcat catcctgcac cgatgcgtcc ttcattggca ggccatcagc cagctttgca 180

gcatccttag gcccagggaa ttcaacatac attacaacat gaaaaacata ttgggtttca 240

tgctcagtgg ccaacaatgt attccaacat tccttcccaa gcaccaccac agggattgtc 300

tgtgcactca tctgtttcct cacaatcagt ttaatcatac cagcaaggaa tgtcttcatc 360

acaacagatg catttccaac cttgtcaggc atatacacaa cagcatggta ctggcaatac 420

tggacaacat g 431

<210> 38832
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E2

<400> 38832

cccacgcgtt cgcgcacgcg taggcaaact tttgagactt tatacaacat gacctttaat 60

agcgaatttg agcaatatta tggggaataa aacattagat ttactcatca aacacaacat 120

taaaatg 127

<210> 38833
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E3

<400> 38833

cccacgcgtc cgtgtttcca gaggaagtta ttgccggtct tgatcgtgct gtgttgaaca 60

tgaagaaggg cgaggttgct cttgtcacaa ttcctcctga atatgcattt ggttcaactg 120

agtcaaagca ggatcttgct gttgttccac ctaacagcac agtaatatat gaagttgagc 180

ttatttcatt tgtgaaggtg cggacatgac tgatattcgt gtctgttcta aatcattgac 240

ctgtgtgcaa ctgcacatga ctgatattcg cgtctgttct aaatcattga cctgtgtgca 300

attgcaaaat tgatcaatat aatcttgtca cacaggacaa ggagtcgtgg gacttgaaca 360

atgaagagaa gattgaggct gctggtaaga agaaagagga agggaatgca ttgctcaaat 420

cgggcaaata tgctagagc 439

<210> 38834
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E4

<400> 38834

cagaggaaga acgccctggt tagcctgcgc ttgtggagtg aagtcttctt gcaagtcggc 60

gggtagatgc tgtacgcatc gatattgcct tcctcggcct cggcgatgtc gaagaccttg 120

ttgcactcct tcgacgcatg ctaatcagag gaagaacgcc ctggttgccc agagggtacg 180

atccctgcac ggagaagtac tccacgaagt actacaactt acctgaggtg cagagagctc 240

tacacgccaa tgtcaccgga ataccgtatc cctgggtaac ctgcagtgac ccagtgtatg 300

atttttggaa agattcgccg aggtccatgc ttcctatcta ccgtgaactc atcgccgcgg 360

gcataaggat atgggttttc agtggcgacg cttgattccg tgtcccgctc accgcgacaa 420

ggtactccat tgacgccc 438

<210> 38835
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E5

<400> 38835

ccaaaaaatc ccccattttc ttcgaggcga ttagagcgtg aaagacaggg caccggcagc 60

ggcgatgtcg gggcgcggca agggccgcaa aggtctgggc aagggcggag caaagcgcca 120

ccgtaaggtg ctccgtgaca acattcaggg catcaccaag cccgcgatcc gtaggctggc 180

tcggaggggc ggcgtgaagc gcatttcggg gcttatctac gaggagaccc gcggcgtcct 240

caagatcttc ctcgagaacg tcatccgcga cgccgtcacc tacaccgagc acgcacgccg 300

caagactgtt accgccatgg acgtcgtcta cgcgctcaag cgccagggcc gaaccctcta 360

cggcttagga ggctatgctg gatgcctct 389

<210> 38836
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E7

<400> 38836

gttgatgcca ttgacgagta tgctgttggt cagctcaagg agtttgaggg caagaagctt 60

ggctctgcca ccaaggaggg tctgaagctt gatgagactg aggacgagaa gaagaggaag 120

gaggagctga aggagaagtt tgaggggctg tgcaaggtca tcaaggaggt tctgggtgac 180

aaagttgaga aggtggtggt gtctgatcgc gttgtggact caccgtgctg ccttgtgact 240

ggcgagtatg gctggaccgc caacatggag aggatcatga aggcacaggc cctgagggac 300

tcgagcatgg cgggctacat gtcgagcaaa aagacaatgg agatcaaccc agagaaccct 360

atcatggatg agctccgcaa gcgtgccgag gctgacaaga atgacaagtc agtcaaggat 420

ctcgtgatgc tgct 434

<210> 38837
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E8

<400> 38837

cccacgcgtc cgcggacgcg tgggggggaga gattctgatc aggtgcaaca acgtgatgta 60

ggtgcgaggc gttccagagg atgcagagat agaggatgca gagtgagaag atgcgatcaa 120

tgttagattg ataaatgtaa tatggttctg acatctatgt tcgaatatgc cggtgacaag 180

tagatctatc ggatcgcttt gttctcttga gtgatgaaac atgatggcgg tcgggctaag 240

ggtgaagctg ctttcagtta gactatgctg tcattctgct gaatatatat cagatttctt 300

gaac 304

<210> 38838
<211> 355
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E9

<400> 38838

cggacgcgtg ggcggacgcg tgggcggatt cgtgggtggt cttgaagttg gtctgacggg 60

ctatgcagat gcctactgca ctggccttct gttggctcgc cgtgtgctca agatccgtgg 120

cttggatcat gagtacgacg gcaatgttga ggccactggt gaggacttct ctgatgagcc 180

agctgatgag aggaggcctt gtcgtgctct cttggatgtt ggccttatca ggactacaac 240

agggaaccgt gtctttggtg ccctcaaggg agcattggat ggaggcctgt atattcctta 300

cagcgagaag aggcttgctg gattcaagaa ggacgacaag cagttggatg ctgat 355

<210> 38839
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F10

<400> 38839

gacgtaatgg gtcgtgtgcc atacggatta tcgtttctgg ataaacaggc cgaagaaagg 60

tcctgggaca tcaacctagg atggttctta gagccagtgg ttcgtggtga ctacccttc 120

tccatgagat cattggctag ggaacgacta cccttcttca aggacgagca gaaggagaag 180

ctcgccggtt cctataacat gttggggtta aactactaca cctcacggtt ctccaaaaac 240

atcgatatct caccaaacta ctcacctgtg ctcaacactg acgacgccta cgccagtcaa 300

gaagttaacg ggcctgacgg gaagcccatt ggtcctccta tgggaaatcc atggatctac 360

atgtaccctg aaggcttgaa ggatctcctt atgatcatga a 401

<210> 38840
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F11

<400> 38840

ctgtcacaca cacacacaca gacaagtggt ttccaaagcc aagtgtgtgt actagcaacg 60

agctagctcg ggcggcagca ggcagccatc atgtcggagg agaagcacca ccacttcttc 120

aaccaccaca agaaggacga ggagcagtcc gccagtaacg acgggtactc cgagaccgag 180

gtggtcaccg ccaccggcga gggcgagtac gagaggtaca agaaggagga gaaggagcac 240

aagcacaagc agcacctctg cgaggccggc gccatcgccg ccggcgcctt cgcactctac 300

gagaagcacg aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaagag 360

gtcgctgccg cggcagccgt cggcgccggc ggctacgtat tccacgagca ccactag 417

<210> 38841
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-F12

<400> 38841

atcacaccct ccgagctcag ctgacctttt ctgcagctac aatcacagtc gatgaccaga 60

gcgagagcta gctagagggc cgtgaaaatg ccgatcaata ggatcgccct ggggagccac 120

caataggtgt accacccggg cgccctcaag gcggcgttcg ctgagttcat ctacaccctc 180

atattcgtct tcgccggcca gggctccggc atggccttca gcaagctgac cggcggcggc 240

ccgacgaccc cggcgggcct gatcgcgacg gcggtggcgc acgcgttcgc gctgttcgtg 300

gcggtgtcgg tgggcgcgaa catctncggc gggcacgtga acccggccgt gaccttcggc 360

gccttcgtgg gcggcaacat caccctgttc cggaggctcc tgtactgggt ggcgcaactg 420

ctggggtcca ccggggcgtg cttcctgctc 450

<210> 38842
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-F2

<400> 38842

gcaagattga caactctggg ttttggcgcc tactcacagt tcgtgaggga agatgtccag 60

gggaagctgt tgtttcacag aatgcagaat cacaaatatc agaagtcatg cttattgtgc 120

aggtgtgttc gacaagtgtt gatgaagctc ttatgaaaga agagtttgac aagctgtctg 180

ctgccctggt acaaggagca gcaacatgct cacctccctt gccactgaca actattgtag 240

tgcaagatca taaagggata tcaaatgctg cacctactga ttgcccactg agcccgctat 300

tggtaccaaa gggagataag ttggatggca catcagaaga taaaacaaga atccatgatc 360

acataagcaa cttaaagttc tctatatcac caacagcttt tttccaggtt aatactcttg 420

ctgcngaaag attgtatacc cttgctgg 448

<210> 38843
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F3

<400> 38843

caacctcaac aggcttgtgt cccaggtcat ctcatccctt actgcctccc tgaggttcga 60

tggtgctctg aacgtggatg ttaacgagtt ccagaccaac ctggtaccct acccgaggat 120

ccacttcatg ctttcttcgt acgctccagt catctctgct gagaaggcct accacgagca 180

gctctctgtg gctgagatca ccaacagtgc cttcgagcca tcttccatga tggccaagtg 240

cgacccacgc catggcaagt acatggcctg ctgcctcatg taccgtggtg atgtggtccc 300

caaggatgtg aatgctgctg tggccaccat caagaccaaa cgcaccatcc agttcgtgga 360

ttggtgcccg actggcttca agtgcggcat caactaccag cc 402

<210> 38844
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D8

<400> 38844

cgagttgatg acagacatat aactggctat ataatgaagg gcaatctgca tctgtcattg 60

gatcgaccag atttggcagt gacagacttc agggggctc aagaattgag ggctgatctt 120

cgttcttatc aaggattggt gcgtgcttat ctagcacttt ctaaatgcaa agatgcatta 180

ttcactgcac gcgaggcgat gaacgttatg catcagtctg caaaagctct taagctagtt 240

ggtgatgttc atgcaattag ttccagtggg agggagaagg caagaaagtt ctatgaatca 300

gccattcgtc ttgaacctgg atttcttgga gctgcactgg ctctggctga tctgcatgtt 360

gcggaaagac ggaataaaga ggctgctatg ctactggaaa gatatataca acaatggtca 420

gatgattctc taca 434

<210> 38845
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C3

<400> 38845

cagcgacagt gcaggcgagc gatgaagctg tcgagacttt gagaaggtaa attcgacaag 60

ggaagagacg gacagctcag acgtttatcc cgtgattcta tctttctatc tcctcaaccc 120

tcaagacgca ataactataa catgcactag agtatgaaga aacgcaagac gtccccgaca 180

tctactccgt ctttgcaaaa actgtctcaa tgatatctcc atgaagacat cctaaggcta 240

atcactgatc atgtctaatg actcatatcg cacagtcatt aacgcaacag catatgtctc 300

caaagagctc aacgccaagg acactaccat gtaggcaggt catcagcggc ttccatagaa 360

tagacaaagt gcccactgca gggcaaacgg tcctccatgg gcaaggccta atcaaagcat 420

ctgtatatgc a 431

<210> 38846
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C4

<400> 38846

cggacgcgtg ggcccggaga agcgtgggct ttcgatcctg ggcgacgacg acggcgccgc 60

gggggctggg gcggatgagg aggagcagct gcccgagccg aagcggccgc gcgcgtgtgt 120

cgccacgctc gaccacgtcc ccggcgcggc ggtgtccttg gttctggtga ccgatgagac 180

ggaggactcg cctggctcgg gcagaggcga ctgcggcgac ggcgcgtcgt tctcgatcca 240

gcacgcgcgg agcggcttcg tggcgttgga gaccacgccc aagttcgggt ccttcaaccc 300

gccgggggaa gcctagctgg cggccctaga tctgaagcat gcgcggcacg aagccgacg 359

<210> 38847
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-C5

<400> 38847

gaaggcatcg ccagcaacaa gacgtttggc actaacaaaa acactccagc cactctgcaa 60

gagatgcctt cgtggttgac ctctgaatat gtggcgaaag cgccattcca caccatgcag 120

gtccttggct acaagctctt gtgttggagg ttgacgggtc atatcctgac cagaaagcca 180

aagcaaagat taccactacc agtaaagcaa caaatagcaa acctacaact gatgcactgg 240

caatatcaag tcaagaatcc agcaagctac cagtggcgga agacactcat ctgcatggcg 300

ccgcagcacc gagaatccac catgagtgct ggtatcagag gctgtcaatg tcttgcagaa 360

ggagtgcacg cgtggccttg caagtgcagc aggaggtgaa gcangcatct nctcactaga 420

gccattc 427

<210> 38848
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C6

<400> 38848

cccacgcgtc cgcggacgcg tgggcaaact tgtagaagga acttaaccga tacattccca 60

ctgccgctgc atttggtggt gtatgcattg gcgcattgac cgtcctggct gatttcatgg 120

gtgcgattgg ttcaggaact ggtatattgc tcgctgtgac aatcatatac caatacttcg 180

aaacctttga gaaggaaagg gcgactgagc ttggtttctt tggcttttga ttagtagctg 240

tggaacctta acttggctat agctgaattt tcttgtaagt acctgtagtg cttagccagt 300

tgtaacttaa agagttctcg ttaggttgcc ttcttgcggc cacaatcatg tagcagaatg 360

tgcctgtgtt tcacgttagc gtgggggtat gtgcatctgt ccaaagagag tct 413

<210> 38849
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C8

<400> 38849

tctcaccgca ctgcctgccc cctcctctcg tctgcctcgc ttagcttagc cgccgctgct 60

aggcactctc gccctccttg ttcccgcgtc gctctgctcg cgatggcgtc ccgcgttgca 120

gtgctgctcg tggccgtggt ggccgtgctg ttcgccgcgg cgtcggccca ggagatggac 180

ctgggcgtgc cgcccgcgcc ggcgcccgtc acgggcgcgg cagcggggac cgcggcgtcg 240

gtcctggccg tggcttgctc tgccgtattc tccatcctcg tcgccggtgg cctcgtgcag 300

taagcgctgc cgtcgacctg gtggctcgct gctggttcgg ggtcaagcgg agccctgttc 360

gatcgttttc gcctctagta gtagtagaag tagcagtcat gggctgtgtt ga 412

<210> 38850
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C9

<400> 38850

gtcgcacatg aataatgatt ctacagaatt taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

gaaaaataaa aaaaaaaaaa aagaaaaaaa aaaaaaaaaa aaaaaaaaaa aatgaaccaa 120

aattaagagc acataaatgc aac 143

<210> 38851
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D1

<400> 38851

acgcgttcgc ccaggcattc gctgcagatg tttatgacat tttgactgaa aagttgattg 60

tgcaaataag tgttaactaa agcgttgaat gagatattcc atctagccaa tataccaggt 120

tttaatagaa aataactatg actccagctt ccatcttaag ggaagctggt cttgcaagat 180

atggtcctgg tacctgaaaa aactatcttg aggtcaggtc aaggaatact acctgtgaac 240

ctaatgtgat actggcttct 260

<210> 38852
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D10

<400> 38852

cccacgcgta cggcagcagc ctaccactgt accatccgac cgatcaacca aagtaagccg 60

ggcgtaaaca gccagacaac cggcactgac tcactagcta ggtgcaactg gtacacaagc 120

catcgtgaac gctatgtact gtgaatccat ccatcctctc agtcgacctt cgaccgctag 180

ctgatctata cgacgtaaca gactagcacg cagcagctaa taatggcgct gggcctagca 240

ctgcgtacgg ttatgaggcg ctcgggcagt aactactcgc gcgttgcgga tgcagcactg 300

cgcctctacg tctccgggtc gtcggctgct tacactgcgc agaaacggca gctcgacaac 360

tggcttatcc t 371

<210> 38853
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D11

<400> 38853

tcgcccacgc gttcggggct gagcccacta ttcttgccat tgccagcatg cctatttgga 60

cgggagcttc gactacgcat tcgcaagacg tgtggaaagg ggactgaagc tcgcacacct 120

ggtctgatcc accggcccgc ggaacggatc cagggcatcc gcattctagg atcgcgtcgc 180

gtcgcgtgcc gccgcttgaa atccccggat cggtgcaatt ggcccctggc tgcactcgat 240

aacccagccg tagggtagtt gcctgtcgat ctcgctgctg gagctggtta actacctggc 300

catttgtgga tttgtgtgcc tgcttgattt tggtgcatgc atggtcgtgg tgaatcccct 360

gcttggggtg tctgaactag gggttgggcc ttcaagat 398

<210> 38854
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D12

<400> 38854

gacaatacta cgaccaatcg taagcacatt tatacataaa acacgtgaac caatacctag 60

ggggtgattc agatgatcat tatgtgatca tggaaaacta cctagtggga tcattttgcg 120

ttgctggata tggatgggga gaagtgtcca gcacatggtg cttgcagatt cggtttgtat 180

gagttgatga tttctctgtg gggcgttgca aggaagatgg gggtcgagga gaggcatgcg 240

cagaatagct cctaggatga gcattccaag aacctcattg tcgatgccat gatgctggac 300

tcccgggctg tcaatctcga caaggggcca ccctgtcgct ctggacaagg gggctgccct 360

aaggtcctgt ttttgctttc 380

<210> 38855
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-D2

<400> 38855

cccacgcgtc cggttttcat catacaagga gcgcctactt ggcctttcat ttggtttgct 60

ggcaacaagg aaccatgact tgtcatacaa ccttgcgtgg cgtaccttaa ctgatccatc 120

acgtgtctca tcaaaggcca taaggaggca gttagggcat aaccttcttt ctgcattgaa 180

gtacacatac aagattgata agagggattc acatcttagg ccaacgaaag gatatgcgtt 240

tcagtcaact tctcaagttg gtggtctatg gaatagcaaa agattgagat atttccggca 300

ggagttcgat gtacgtggtg ctgtgccttt gggattttat agtgctgctc tcaacgttgg 360

tgtangagcg ggtgtcattt taccgcttgc agggggattc atgaattcga cttcatcagt 420

gccagagagg ttttatc 437

<210> 38856
<211> 362
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D3

<400> 38856

cggacgcgtg ggcggacgcg tgggctgact cgtgctggtg gcttggcttc tcgtcccccct 60

gcagttcggg accggattcc tgaggctctc acgtgttaag cttcgatggt gagcagatcg 120

atgatgccct actcggatgt tgagtaccgc tgcttcgtct gcggcctcgt ctgggacacg 180

gaccaccagt cgctgcataa cgacttgaac atctatggcg aggtcctcct agccaacatc 240

atcctccatc cggacacgca cagtgcccgc ggcttcggct tcgtcacctt ctccacggag 300

gatgcgatgc ctaacgacat cgagggcatc aacagcaagg agctggactg tcgcaacatc 360

ac 362

<210> 38857
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-D4

<400> 38857

gtgcagcaga acgatcggat ctagcagaat tctctcaacc tcatcggcgg cggcgaagag 60

cgtgcggatc ggagatggcg acaagcgggt ggaggaggag agcggcggcg cgggccttct 120

ggagccacac cacggtgtac ctgtggctcg cgctcgccgc agcagcactg acgctcgccc 180

aggctaagaa ggacctaacg gaggttaccc acaaggtcta cttcgatgtc gagattgacg 240

gcaagcccgc aggtcggatt gtcatggggc tttttgggaa gactgttcct aagacagcag 300

agaacttccg agctctttgc acaggagaga aaggaattgg caagagtggc aaagctctcc 360

actacaaggg aagtacattc cacagaatca ttcccagctt catgctccaa ggaggtgact 420

tcactcttgg ngatgggag 439

<210> 38858
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-017-Q1-K1-D5

<400> 38858

caggagaacg gtctggtgcc aattgttgag tctgagatcc ttgttgatgg ccctcatgac 60

gttgatcgct gcgcttacgt cactgagaca gtccttgctg cctgctacaa ggctctcaac 120

gagcaccatg tcctcctgga gggtaccctc ctgaagccca acatggtgac tcctggctcc 180

gactctaaga aggtgacacc tgaggtgatc gcccagtaca ccgtccgtac ccttcagagg 240

accgtccctg ctgctgtgcc tgctgttgtc ttcctctacg gtggacagag cgaggaggag 300

gccaccctga atctcaatgc catgaacaag ctcagcacca agaagccatg ggccctgtcc 360

ttctncttcg gccgtgccct tcaggcgagc accct 395

<210> 38859
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D6

<400> 38859

gctcgatcca tctcactctc cgctggtcgc tcactcttgc agctccaccc ttcactcagt 60

gggagtctct tattagctct aggctctagc tagccgcgcc actccttcgt gtagccatca 120

gccttctcat cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc 180

gaagaagcgc ccgtggtgga gaccccgtcg tcggccgtcg tgcccgagga gtctgccccc 240

gccgaggccg aggccgaggc cgaggctgct gctcctgctg atcccgagga gcttcccgcg 300

gccgagcagc aagcagccgc cgaggcggag gccgcggctc ctgctggtgc cgaggagccc 360

gtcgcggccg aaccggccgt cgaggcggag gctgctgctc ctgctggtcc cgaggagact 420

cctgcggtcg agc 433

<210> 38860
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D7

<400> 38860

cggacgcgtg ggctctcacg ggcgcattcg taccgcgatg aactacgccg caggcgccac 60

ggacgccccc gcggcggcgc ccgcggcagc gccggcgtcg ggcacagaac acgcccacta 120

cccgtattac gctggctatt cttatcccta cggcgcctat caccaacctg ccccgcccac 180

gtactcctcc gccgtggccg acgcctcgtc atcctactac taccccgtcc ctgccgccgc 240

gtcgtccacc gacgcgcagt acgaccccta ttcgggttac cagcactaca gtcacccgga 300

gggaggacgc tcggcggggg ctggcctggt gggctgctac agcaccgtcg gcgaggcgtt 360

gcagcaggcc gaggtagcat cgacgacgc 389

<210> 38861
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C12

<400> 38861

cccacgcgta cgatcaatgt gcaatcggtt aataagtgcc atttgtgtta gttgctgagg 60

tatgtaatat atacctagtg gagttcacac tttacatgtg caatttatgg ttattagatt 120

gcgcaacatc aaatcaatgt agcatgcttc tgtaccttca aggttcgtcc ttgtgaactc 180

tgatgtactt ctgattaaag ttttcattcc aaatgtttat ttggtcatgt tgccgctaat 240

ttatcagctc cagtgtcgtc aatctcattg gacatacctg cccggtctca acatgaggtt 300

agtctggcaa ttggaagagt atgctggtta ctagaaatat ggatatggaa tgcatctacc 360

aacaaaattt agaattccag tgcatgggat gcacattaac aagtgtaatg ctatacatt 419

<210> 38862
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A5

<400> 38862

cccggccgac cacgcgtccg cctttaactc tggtgacata agctgttgct agggtagcaa 60

atcaagagct aaggatggca gagtcaatgg tagcaagctt ctgggggcct gtgacatcaa 120

caactgagtt gtgcgaggag aattatgcac actcgtcata tatcgcagaa ttctacaata 180

ccatctctaa tgtcccatgc gttcttttgg cacttattgg attagtgaat gctttctgcc 240

aaggctttga gaaacgattt agtgtcctgc acatatccaa tatgatactt gctattggga 300

gtatgatttt ccatgccacc ttgcaacttc tcctacaaca gagtgatgag actcctatgg 360

tttgggagat ccttctctac atgtatgtcc tctattcacc ggactggcac tacaagagca 420

caat 424

<210> 38863
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A6

<400> 38863

cacaatacga actgcagttt ccaatactca ttgagttacg gaaagcagcg gaggggaagc 60

ggtgtatcat atgtgaaact gtcaacttgg aattcaaaga aattggttct atgtgtggtg 120

ggccttagga gaacaccaga tctagacatt tgttgaaaca acttaccatt ggcccagaca 180

attctttagc acgaatgatg gatcttgcaa ccacaaggaa gctcgcgatg aaaaataaaa 240

ttgtttttgg cacaagtgac cattggccgg cccctacttt gactgctaac atgggttctg 300

taagagctgt ttcccactct ggtatgtcct tgcttaccat cgatcaccga ccttgggcgc 360

tgattgtgct gtgacagtta gtatgccata actattctat acgtggtttg ag 412

<210> 38864
<211> 111
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A7

<400> 38864

cccacgcgta cgctgtgtcg gatggtgtca ctcctgtagc ccccggtgct ccgggcgtgc 60

gtgatgtcga ggtcttggga cctaaagaca ctctcagggc cagggatgtg t 111

<210> 38865
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A8

<400> 38865

cccacgcgtc cgctcacgcg tacgtcgacg cttggggttt aaaactgtca attggcgtgt 60

ggggcatcat actcttatgt gtcggcgtca gtttgtttgc gtcatcagtt tcgttgtctg 120

ttgcatgtca cggcttactt atgtgcttat ggattgctac tatacaagta ttcgttttgg 180

atgtgttaaa aagacatgaa aatggagcta catgccagaa gacagacgga ggcttctttg 240

gaagctgctc tgac 254

<210> 38866
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-B1

<400> 38866

cccacgcgtc cgggatggtt cactggccac tatcttccag ctcgcaaatt cgacgcttgc 60

tgaagtgctg ctgttgcggc tccatcgccg gaccgtgccc tcctcctgca cccgagctcc 120

tcttaaggtc ctggtacatc tcctcgatca acggcttcca cagacgaacc ctcgcattta 180

tgaaccaatt tgaaacctgg tacaaatgca aaaccactcg aatccatcat taccccatct 240

cgccaaaaaa gaatcgaatt tgaaacgagt ctggtgggat ttcgatctgt gcttggttcc 300

tggtgaggct gctccttgcc gncagcacgt ncttctcatg gtccttggga tacctgagca 360

gagcanagca gagcgcgatt ctgatcatgg ccaacaatgt cgatagacga tttgcacagc 420

aacgtcgcgg gaca 434

<210> 38867
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B10

<400> 38867

accacgcgtg cggcaccgcg agaactcgtt taatgctaac tgtgtaccag tgtgaccctg 60

gacgctcatt gggtacgtga acaaggatgc tcatgctgca ttacagtgct aatgttggtc 120

tcatgggcaa tactactgat acatatctct acggtgtcat tgagattgtt atacacagca 180

aacgttggac tgaaccttca tatgataatg gatggtgcca ctctagtgtt taaggctgta 240

tagaaaatga atgcggtcga tatt 264

<210> 38868
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B11

<400> 38868

atcggaatgc tcaggcgcgt ctaccgcttt tactacgtct cgctcttcct cgcgctcatg 60

ggcctcagga gatgaagcag ccggcggaga gtgcgtgaac aatcgagcca acagaatttg 120

cacccacacc caacacacag ttgctagtgg tcaattgtcg ttcatactga tcgatgaata 180

tgtaattgtc ccttctgtac accaaaacgt ctgtagtgtc gtttactcgt tttatacgtg 240

tctgtctatt tatcgcacca aaagatattt aataataatg gattattatc tttct 295

<210> 38869
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B2

<400> 38869

aaaaagaata aaaaaaaaaa aaaaaaaaaa atttaaaaaa attaaaaaaa aaaaaaaata 60

aatagaaaat atgaaaaaaa taaataaata aaaaaaaaaa aaaattaata atatatataa 120

aatttctttt aaattccttt tccatcttat acttcaacct atttcacaac taactatttg 180

atttatcaac caatttttaa aatatacaaa tttaaaccac tataatcatt attaaccatc 240

tcttaaaaaa aaatagattt aaaaaaaaat ttgaaatttc atttttc 287

<210> 38870
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-017-Q1-K1-B3

<400> 38870

gtcgcagccc gtgttccagc gcatcgcgct ctacagggct ggcattgtcc ccgtctccta 60

cggcagggtg gcgtgcaaca agaagggcgg catccggttc accatcaacg gccactccta 120

cttcaacctg gtgctggtga ccaacgtggg cggcgccggc gacgtgcacg cggtggccgt 180

gaagggcgac cgttccgcgg ggtggcaggc cctgtcgcgc aactggggcc agaactggca 240

gagcaacacg ctcctggacg ggcaggccct ctccttccgc gtcaccacca gcgacggccg 300

ctccgaggtc tccagcaacg cttgcccgcg cggctggggc ttcggccaga ccttcagcgg 360

ngcccagttc aactgaacac cctccatggt tcccgcagcg tcgtctcgtc cgtcgtcggc 420

gcggtgccac angtagtagt ttt 443

<210> 38871
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B4

<400> 38871

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tattaaaaaa taaaaaaaaa aaaaaaataa 60

tagggaaaaa ttaaaaaata aaaaaaataa aaaaatataa ataaaaaata aaaaaaaaaa 120

taataattaa aaattataaa aaaataacaa aaataaaaat aaacaaataa aataacaaaa 180

ttaatcatta aagtcaactt ttttaaatag atacaaatat atgttgtaca acttaggtta 240

aaactttatt aataacacac taatggactt taataacctc ttcttaaaaa ttattaataa 300

ttaaaaacac 310

<210> 38872
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B5

<400> 38872

gttgctatga agtaccaagc gctgcttgga atgatggtgg ctggttgcta tgggctgcca 60

gagttcacga tgcgtgtgtt cctctggggt gctctttctt ccatggtgct ccctaagtat 120

cctctgccca cctatgatgt tgtagtacgt ggaggagccc ctaatgcctt ttcgcaatgt 180

atggttgcat atgacgagac acaaaaacca tccctgaaga aagccttgct tcttggtgat 240

gcaatttcag atttaccaaa ggttcaaaat caccagccta acgatgtgat ggagtatggt 300

ggttccccca agaccgaatt ccagcgctac attcgactca gtcgtaaaga catgttggat 360

tggtccttca gtgaggggggc tggtccaaat gaaggcaagc tctttgatca ccaaccttta 420

cggcttacaa cgatgattat ga 442

<210> 38873
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-B7

<400> 38873

cccacgcgtc cgagcggatc tgttgagaca ttatgttgac cagcctggtt atggtgatct 60

ggattggggc atgttcgttc cagctataaa aggccaagga actgaggagc agcagcacaa 120

gtggttacca ctggcttaca agttccaaat aattgggtgc tatgctcaga cggaacttgg 180

tcatggctca aacgttcagg gccttgaaac aactgctaca ttcgatccga agactgatga 240

gtttgtcatc cacagtccaa ctctcacgtc cagcaaatgg tggcctggtg gcttggggaa 300

agcttacacc catgcagtgg tgtacgctcg gttgataact gaaggaaagg actatggcat 360

acatggtttc attgtgcaac tgcgaagctt agaggatcac ttcncacttn ctgggtgtac 420

ccctcgtgat attggtggaa g 441

<210> 38874
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B8

<400> 38874

gcaacatctc tgaatatatc ggcttatcaa ctgcatgcac tgcatttgaa ttggatataa 60

tgtgtcagta agatgcagct ctgctcttga tcttttctgg ttgacgagca tgtatggtcc 120

ttgcaaagcg atcattggtc caaagcgact ttaatctgac gagacctcct catttttagg 180

ttttttggta tttagaacca gaataatttg tgcatactca ttactccctt ggatctgaaa 240

caaatgtcgt tatattgaat gagtggttct ctgatgcact aataacctga tagccggaga 300

atcactaaca ttatatgcaa gaactttatc taaaagccag tcaccatggc cccctgagaa 360

ccccgacatg ctgcaactga ggcaagcttt tatgctcaag atcttgatga ggtattcat 419

<210> 38875
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B9

<400> 38875

aagacgcgtg agcggacgcg tggggaatat atgctactcg acaaaacgag aaccgtgatg 60

agcgctgatt atggtgttgc tggcctcgaa gcttcaaatc ccatagacat gacaggcgaa 120

actggaacgc tcggttacat ggcacctgcg ggtctgaatg gaaatcccta caacaggaaa 180

tgcgatggtt acagcttcgg gatctgtttg tgggagatat actgctgaga tatgccatat 240

cctgacttga gcttttctga ggtcacgtct gcagttgtcc gtcagaacct gaagcctgag 300

ataccacgct gctgcccgag ctctctatcg aacgtgatga agcgctgctg gga 353

<210> 38876
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-C1

<400> 38876

ctgcttcttc acagtctgat gggagtggaa tatgcgaggt gtctctccat acggagttaa 60

ggctatctgg ggcccagaat gctgatgcca cacgtaccac aggagctggc acaaatgatg 120

cattcaggaa taagaaaaag cacgatcgct cttcatgcgg ttctaacaca ccttcaagta 180

gtgatgtaga tgcgggcaat gttcctgagg aggacaatgc taatgagaag gcgaagcaag 240

cctcctgcag caactcttca gctggtgaca ctaaccaccg cagatttaga agcaatggaa 300

gcacaagtga ttcatggaag gaagtttccg aagagggtcg tctggctttc gatgcgctgt 360

tcagtaggga aaagcttccg canagctttt ctcccccaca agcagta 407

<210> 38877
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C10

<400> 38877

cggacgcgtg ggcggacgcg tgggcggtct cgtgggtgag agtgctgctg ctgaaaaggg 60

acatgaagat cacgcacagg gtgagcatga acaccatgag catgagaatg aacacgacca 120

tgaccatcat caccatcatg atcatgatca tgatcatcat gcacatgacc acactcatga 180

tcccggtgtt tgtatctgtg agcattgact gcgaagggga catggatctt gaaaaggctg 240

acatgaggct gggggaccta ctgctggaac acagcgagga tatctacagg atgaaaggtc 300

tgctttctgt cagtggaatg ccggatcgac ttgtctttca gggagtccat 350

<210> 38878
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-A4

<400> 38878

caaaagaatt ggcttcttcg gctgccgtcg aactcaagaa tttggctgaa gaagttacaa 60

agggatctgg gctaaatgca aagcaggcga aggagttatt agttgctcag gagatggcac 120

attcaagggt tcatggtaga aagggtcgta cagctagtag gggtagggat gaggttggga 180

catggagcct cgatttggag gacatgaaaa tggagctaca ggccagaaga cagagggagg 240

ctgctttgga agctgctttg gcagagaagg agcttctcga agaagagtac aagaaaaagt 300

ttgacgaggc aaagaaaaag gaactatctc tggagaatga tctagcangc atgtgggttc 360

ttgctgctaa gttgaaaaga ggagctttag gcatatctga tttgaatgtt gacgaccgaa 420

ctgttaacct agctgata 438

<210> 38879
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C11

<400> 38879

cccacgcgtc cgcccacgcg tccgcacgtt tcctgcctat ttcaacgact cgcagagggg 60

ggccacaaag gatgctgggg tgattgctgg cctcaatgtg ctgcgtatca tcaatgagcc 120

aaccgctgct gctattgcct atggtcttga caagaaggca accagtgtcg gtgagaagaa 180

tgtcctcatt tttgaccttg gaggtggtac cttcgatgtc tccctcctta caattgagga 240

aggtatcttt gaagtcaagg ccacagctgg cgacacccat cttggtggtg aggactttga 300

caacaggatg gttaaccact ttgtccagga gttcaagaga aagaacaaga aggatatcac 360

tggcaacccg agggctctcc ggcggctgaa gacctttgt gagagggcca agagaactct 420

ggcttccact gcccagacca ccattgagat tgactcgc 458

<210> 38880
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H12

<400> 38880

cccacgcgtt cgcttgctgc tatggaaggt tctagactgg ctggtgcatc aaggatcatg 60

ggcgtggtca tcaacccagc agaatacgag caagctaaga aatttggctg cactgaattc 120

gttaacccca aggaccacga caagccagtg caagaggtgc tgattgagct gaccaacggc 180

ggcgtcgacc gcagcgtgga gtgcaccggt aacatcaacg ccatgatatc cgacttcgaa 240

tgtgtccacg acggctggag tgtcgccgtg ctggtgggtg tcccgctcaa tgacgaccag 300

ttcaagaccc accccatgaa cttcctcatc gagaagacac tcaagggcac ctttttcgga 360

aactacaagc cgcgcaccga ccttgccaac g 391

<210> 38881
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-H2

<400> 38881

ggaactttgg gctgatttat gtgcttggag gaacggaagt aattggtgta gttctgcagt 60

ttctggtgtt gtagataatc tatttggtgg cggtgttgtc ggttccttcg tcggggaagc 120

ggtgtggtga acgtgagggt agtcctttta ttacacttcg tccttggcat ggtgaggagt 180

cttcaccgct gtactacttt cttaagttag cgactctgca tatgtagaag atgcggaaga 240

tggtgctcgg tgagttgacg tatgttgaga gtgggcatcg gtggtttcgt ttcgatggtc 300

ttgcagatgc ggctactgtc tagagtatcg gttctgttga ggcttagaag gggctacccg 360

acgtcgaaaa gaaaatagcg atatcttaaa gtgaatctgc anggaacgta ctaaaggcga 420

agtagactat g 431

<210> 38882
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H3

<400> 38882

ctttgggctg atttatgtgc ttgtggatgt gcgggtagtg gtattggtgc gccttcgttc 60

cggatggctg gtttgaagtg gcgtaataag tattccttat tgtgtactta gaagtgttgg 120

cctctggtga cgacgctgtt tactgaggtg tagggtcgag gatttgtttg atgctacgct 180

gttgctaaat tgaatggtta agactaagca ggatttggcg taatgagtta ttgcccaacc 240

ttcagggcct ccggagcgcc ccccccctc tctctgctgc tgagctaaaa aaagaaaaaa 300

gaaaagaaac ggctaaaatg tgtggatagc gagcccggat gctcgcgcac cctggcgatt 360

cgcgcccccc cccctctcgg agggtccccg gcttgtacgc aacccagttg ggcccgcgat 420

ccgcgatccc gcgagc 436

<210> 38883
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-H4

<400> 38883

gaacctttgg gctgatttat gtgcttggtg tgagatcgtt tagtagccgt cactataccc 60

cgagaaacga acggcttacc ggtagcgcgt cagtagccgt ttagtagctg ccgctcagcg 120

ccgagacgcg agtgttacag gtagcccgtt cggcgcaaca aaaacgggcg cactagataa 180

tgcccaaact ccgacgaaat tgcgcaccgt attcgcggca cactgttaaa tcccatctac 240

ctagtaccac attataggcg taacgtcgaa cgagcaaagc ccggtgacaa aaaaaagaaa 300

aaaaagggtg gttgtctcag aggacttaag tccatgcatg tgcgtacgtg atgctacagt 360

ctcctcacag cgctattcan acctaacct 389

<210> 38884
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H5

<400> 38884

ggtcggaacc tttgggctga tttatgtgct tgtcctcctc cgacgccatc ttttcgctat 60

caggcaccga gatgtctggc ggcactccta ttagaccgac taatagaaat atcataactt 120

ttataaagaa aagctaggcg cctctaatcg tcgtcgataa ttagatttaa gcgggcactt 180

gggcgccgta aggcgagtgc gaaacggtca tagataataa gtcttccggc gaacccgatt 240

ctgcgggtac cttattcgtt ttaagaggtc cgttctagac cgaggccata cctgatactg 300

acgttaacgg aaccgcgatt gctctagtta aagacaaggt cattgggaag gagtagaata 360

ctattacatg acttctgggc gggtcgctag aggtcgatac ttagaagacg gcgtaagaag 420

tcgagtcgta cgttta 436

<210> 38885
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-H6

<400> 38885

tggctctgga cctttgggct gatttatgtg cttgtggatg tgcgggtgga tgtgcggggg 60

agtatagagt cagtcagtta gttagttagt agtgagtccg tctgttgtgt ttgcgtcctc 120

cttctgttct tgccttgcct tgccttgctt tgtttgttgt tgttgttgta cctagggacg 180

gagacgaaga agactgttcg tgttgcttct gctgttgttc tggtggttat tgcggtgtct 240

gttgtggagg tcttggtctt gggttttatt agtggtcttc ttgttgctgt gtttgttgct 300

ggtgttgntt ctggngttga tgctgttctt cctcctgttc atcataccta gcgagttggt 360

tgtggttggc tgtttggagg ttgaagaaga gatgaagtgg gagagagagc gatacggtcg 420

tgtgtacctt gacgtgcggg tacgcccccc cc 452

<210> 38886
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H7

<400> 38886

tggctctgga cctttgggct gatttatgtg cttggtgttg gttacggtgt ctgtccctga 60

tgagcctggg tgttttccta ctacttcgtg ggagtaggag aagaagatgt gttccagggg 120

gtctgatgtg tagaaggtta atactgttct ggttaaggtt gctgtgtgga cttcttgtat 180

gctgtccgga tttaagggta cggacaagac gtcttagctt tttgatggtg atgctactac 240

tataaacgac ggagtgatta cttcggagta gacggacgcc gataattaga cagtaaagtc 300

gacggcggag tcgctttgca gctaagatca cgaaactggg gacggcatta ttggggcggc 360

agctacggta ggggtctcct ctgagtaggt cgagaagtcc tcggagtgcg gcacctattt 420

taccagggcg gtcgaaggtc a 441

<210> 38887
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-H8

<400> 38887

ttggctctgg acctttgggc tgatttatgt gcttgtcccc taccgtccta gctatgtcgc 60

ggctccttaa ggatattaat cttcggaagt cactggggtt actggcatga gtgcagggag 120

tgcgggaggc cttacagagg tcacggcggc gggtgcgacg agcaccatgg taacggtggt 180

ggtgggcacg gtcattgtag gctcttgttc gttacgcatc tccttcatag ggagagctgg 240

gaccaccact ttcttcataa ggatagttgg gatcatttct ttcataggga tggtagggat 300

catctcttca tctataggga tttctgggat catcatgaaa gtaggggcgg ttggggtcat 360

ctgttgntca tccacggcgg cggcaggcta aggagggatt gactggccct attgcactgg 420

acgttagaaa ggcgtcatgg cggaagttgt ttttt 455

<210> 38888
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H9

<400> 38888

ctagggtttt gctgctctcc gaccccgagc tccgaaggcc gcagcatcag gcgaggcccg 60

gctcgcgtgt gaccgagatg gcgctgccga atcaggggac cgttgattac cccagcttca 120

agctcgtcat cgtcggcgat ggtggaactg gtaaaactac atttgtgaag aggcatctca 180

ctggagagtt tgagaagaaa tatgaaccaa ccattggtgt ggaagttcat ccgttggatt 240

tcaccactaa ctgtggtatg atcaggttct actgctggga taccgcatgg caagagaagt 300

ttggtggcct cagggatgga tactatatcc atggccagtg tgcgatcatc atgtttgatg 360

taacctcaag gcttacttac aagaatgttc ctacgtggca tatggatctg agcagggtct 420

gtgaaaacat tccca 435

<210> 38889
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A1

<400> 38889

cccacgcgtc cgatcccccg ctgtcacctc tccttccatc gccacaggcg gcccttctcc 60

ggggaagccg gcgggccgcc gcctaccttа ccccтctcgc cgtgctcctc cgcaccgtca 120

ttccctagca ttccccacgg gcgagtggcg gcttggtcga gatgggcgat gcggttgatg 180

acatcatctg tgcaacggat gcggcggtcg ccgtcgagga tgcggccagt gggaagcccg 240

caatgctctc tagcttaggg gggcacggtg aggaagagca tgaggagaag gacaatgacg 300

acaagtcacg cgagagcgag gtgatcaacc cgccagaaga cgctggcggg gaggccacct 360

caccccтgga agggttgaag cctcgccttt ccaaggggaa tcaaagccat ggacctaatg 420

ctg 423

<210> 38890
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A10

<400> 38890

ccgtccgaat gcttcaggga tattagttgc tagtcttggt gtatgtgatg cagctcacgt 60

gacggatgac aagtgggacg ggtcgtctcg tgcatagaaa gattcaggcg tttcgctgaa 120

ccagcacttt ccatgtccgc tgaagtattt cacaggtagc tccagggaaa gtatgtggat 180

gctgaaggaa acgtgtgaaa gagtttccag tggtgttctt ggatggcaag gtatgcatga 240

ccgtccctga gcaagtcaat tctacattgg ttggacggca attgagcgaa 290

<210> 38891
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A11

<400> 38891

ctagtcttcc ctcctgctgg cggcgtgctt atggccggag gccgcgtcga caagaggagg 60

tgacgtttgc agcggggctg ggttacgccc tgatcgcgct gggccctgcc ttctccctct 120

tctccggcgt cgacgacagg aagcccttcc tcgtcctcac cctcctctgt agcaccttat 180

ttaggctcat aagttagata gtcctgtctg caatatggag aggatttcgt actataaagt 240

caggagctag gcgggcatat gtgattctga tccttacatg tgtcgcattg caagaaagca 300

ctcgtattgt gtcttggatg ctttacaaga taatcgacta gatgctagat gcttttgctg 360

atagaatatg taagccacgt cttagatcga ctgacaaga 399

<210> 38892
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A12

<400> 38892

acgcaagatt atagaatgac atattgtctt gttttccatc aaggaagatg ctcttgatgc 60

cgggcgagcc ttatgaacct agtggatcat gctacgtatg ctctgagacc ccacttgtcc 120

tggaggttaa tactaacaca acatagctac gggaagacat tgaaaacctt ataaaaagca 180

aacttggaat gaacctccct ttgataatgg ttggtgccac gctagttttg gaaagatggc 240

aggatcgata agactatcag acggtagatt atgctttaaa cctcgaaaag gtcttggctg 300

aacttccagc tgcaggtcta aatggtacaa cacttacag 339

<210> 38893
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A2

<400> 38893

acgcacacgc gctcaagacc gcattataac caataattcc aatctcacaa tcgggcctag 60

tacagggaaa acggtaaacc ttctggtacc ttacccctct caacaagctt ctagggaccg 120

tgattacata acatgaacca aaggctaatg acgtccatga acgacaccgg cgatgcacga 180

tgaggacatt aacattgcaa ctgatgcatg catatgcagg aaatgatgcc aacagccaga 240

ataccgaaat gctctttata tgaggtaggt caagtgaaga agagcatgag gataacgaca 300

cagaaaacaa gtccagagac aactaggcga tcaacccgac ata 343

<210> 38894
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A3

<400> 38894

ccaataggca tcggtttagc attaatttaa acgtctttga gaaaaatcat cgtagatgtg 60

cgccatccgt tttcatgagt tgctaatata ccagaaattg ttccatgtca aaagccttga 120

gaagatttcc cacggtgatt ttcatacgct ttactatgcc atgtaccttc aagtcagcac 180

aatcaatcag ggcccttaac ttacacggtc tcgcaggctc gcaactggtc atttgtgtac 240

c 241

<210> 38895
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H11

<400> 38895

cgaggacagg atcctcacca ccaacctgtt ttccgctgag ctctccaagc tcgccgccag 60

ggcgttcttg gcacagagga tctcctctgt caatgccatc tccgctctct gcgaggcaac 120

cggagccaat gtctctgagg tggcttacgc cgtgggcaag gacacgagaa ttggccccaa 180

gttcctgaac gccagtgttg ggttcggtgg ctcatgcttc cagaaggaca tcctgaacct 240

ggtgtacatc tgcgagtgca acggcctgcc cgaggtggcc aactactgga agcaggtgat 300

caagatcaac gactaccaga agagccggtt cgtgaaccgc gtcgtggcct gcatgttcaa 360

caccgtcgac ggcaagaaag atcgccggtc ctcggcttcg cctttcaaga aggacaccgg 420

ttgacaccag 430

<210> 38896
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F8

<400> 38896

tggctctgga cctttgggct gatttatgtg cttgtttatg tgcttgttta gtctgtctgc 60

tttcactcga ctaggctgag tattcagcag tgattcgtct gactactagc gcagagcgct 120

ggcaggcgct cgctctctcc ggcggtcggc cgtaatggct acggtgatgc tgctctgctg 180

ggcgtttccg tcgtcgtcgc gttcgggtgc gtcggcgctt cgtcttcctg tggtgggtag 240

tccggattag gagtcggata ctatgcgggg tgatgggtgg ggtaaggctt ccgataatgg 300

gtggtcgtcg atgtcgctgt cggattgtat gcttggtctt gggccttagc tttggtatga 360

gcattcgcct ggtaagactg atacgt 386

<210> 38897
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F9

<400> 38897

ccatactcga tctcatagat ccctatggaa ttctttaaaa ggccttgggc gatgaaagtc 60

gtaagtacgg cttgtaggga gatctttcct atacttcgag atccacccta caatatgggg 120

cctaaaagcc aaaaaaataa gcgattcatt tttagccctt ataaaatgat aacggattct 180

tgaacctatt acacgctcat gtcacgtcta ggtact 216

<210> 38898
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-G1

<400> 38898

ctttgggctg atttatgtgc ttggagtgat aaacaagggc cttctgggtt gcccatcgat 60

tattcgatgt tcttagtctc acgagctggt tcttaatgat ttgtgtagta aagtagttgg 120

cttctttgtt gttgttgttg atacgggtgg gggttgtgtg taggcgaata aggtttataa 180

gagttgtcct gtgcttaagg tcctttgtta tatgtataag actgataagg ctaggagtgg 240

gaagctagag attagttatt gtgttgtcgc aaaggggtt tgtgttgntt gtacttagta 300

gagtaaggtg acttgcgaca aaaaatgcgt cgtcccgtcg aaggagaagt gtctgctaat 360

cggattccta agtgtattat gtgctaccgc ctctgccggt tccctcctac taataaacgc 420

tggactatcc 430

<210> 38899
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G10

<400> 38899

catagataag tcgtgttttg aagggttctt gtgaataaga taaaggctta gatacatttg 60

gttgtatgaa cgggtttttt ttaggtgtat ctagtgtttg gagaaccgca acatgatgtc 120

tatgttgtac atgacctaag tgcatttctc taccaccagc actcttgccc aagcatggta 180

gaccatttgt gtttaatgtt cattacatgc taataaaaga tactggtggg aaggttaagg 240

ttatggtttt aggcacacca aacaagaggg ag 272

<210> 38900
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G11

<400> 38900

aggtggcgag agcgagagcg agagcaaagt tctgagcggg acggagcagc tagcgctagg 60

gataacgcac acccaccacc atggcgacgc ccggagagca gccggcggag gtcgtgtccg 120

tcgagatgcc cgcacccgac gggtggacca agaagtttac tcccttgaga ggggggagat 180

ctgagattgt ttttgtttca ccaactggtg aggaaattaa gaacaagagg caattaagtc 240

agtacctaaa ggcacaccct ggaggccctg ctgtttcaga gtttgattgg ggaactggtg 300

ataccccaag gcgttctgct cgtattagcg agaaagtcaa ggtatttgat agcccagagg 360

gcgagaagat cccgaagcgc agcaggaact ccagtggtag gaagggtaag caggggaaga 420

aagaaacccc tgagaccgaa gaagccaaa 449

<210> 38901
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G12

<400> 38901

cccacgcgtc cgcccacgcg tccggcattt agaaaagctg gagcagtgaa aatcagtacg 60

tggacattgg cgcggcttaa tgcagaggaa gtctcaaagg cagccgcgga ggcaaggaag 120

aaatccaaaa tcctgaaacc agttggaaaa catggcgccc cagagaacag cagcaaacca 180

gaccatttgc ctagctacaa gagacggcta gacaggagag gtttccctgc tgaactctct 240

cttgacccac ttgcaactct atccgcaagc ggcaccgaaa gcaactacag cgacgcagca 300

acagaaatct gtggcagtct agccccgtta cagctcgaag cgagaagtgc tttccaaccg 360

agtactgcag cgtccacaag aaatg 385

<210> 38902
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G2

<400> 38902

ctttgggctg atttatgtgc ttgtggatgt gcgggcgaat actaagggct cgcctgattc 60

gattcgctag atcgccgtcg atacgactaa gggtaagata ttagatgaga cctgtaagat 120

tcctaacact aagaacgatc ctattttcga ggaggaagag gagacttgta gggagaatta 180

gcgggttcct gagcaaggag gcgtcggact caccgacgtt caagcccggc ggcgctcatc 240

atcacgctca tctcacgccg cttcaacggc cgcaagcacc ccgggagcta tcccgtccgt 300

gaacgctctg tgcaagatcc acgcggctaa cggctggcca ccaatccacc attacgaaag 360

tatcccgctc gtcgtttcaa gaggcccagc tttacccgta cca 403

<210> 38903
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G3

<400> 38903

aacctttggg ctgatttatg tgcttgtgtc atcttcacgt agaaaaggcc tccaccctag 60

cagaactcga aatctagggt aaccggcgtt atgagcacag aaaatcaaag gtgaaggctg 120

agataacata aaaacgctaa aagtattcta cgggagagga ctccgaaatg ccgaactcta 180

aagagtccta gtaatcagag tagtagtcgg agagcctatc gaaatacact agaattagga 240

agagttagtc cacgtctgag ctaaccctgg agtcttaatg gaaggagaag ctgtcgtagg 300

aggagaataa ggcctcgtag aaggagtctg tggagaagta gaaagtttag tggaagtaag 360

cgtaacgggg ttaaatttaa tagtagatta gcctgctcct tctgcgtcct acgacaaggg 420

aagtcgtttt aataataaac aaccc 445

<210> 38904
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-G4

<400> 38904

gaacctttgg gctgatttat gtgcttgggt agtgggagta gtagccttgt tctcggcctg 60

attttattgg tgatccttat attcatggta cttctcggaa ttttaagtat gctactccta 120

cggcggatga tacgtttact agggatcctt gtaattcgga gagtaagggg gcggtgcctt 180

ttaagagtta gttgacgtgg tctcatctta gttcgcggaa tgtggatgat cgggtgatgt 240

agggtgggtg tgctaagatg gatcggcttt atgtttttcc tcttgttctt cattgtgggc 300

ctaaggttga tgtccgtgct gttgctgtgg gtggttggat ttgtcgtggt gttattgctg 360

gtattgaggg tattggtgtt tttgctcttg ctgntggtgt tggggatcgg cataattagg 420

agtc 424

<210> 38905
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G5

<400> 38905

aacctttggt ctgatttatg tgcttgataa gaatcaagac gtgcctttcc cagacccaac 60

tagaaataca ggaaattagg gccatggggt acataaaatc ggacgtcgat tacttgattt 120

cacacacatt acgaaagtcg tcatagatgc ataactatgt actgcagaag ttcaaatata 180

tccactcaga tt 192

<210> 38906
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G6

<400> 38906

tggcctggaa cctttgggct gatttatgtg cttgtggatg tgcgggaaag aaagcctcat 60

acgcgtaaag tactcttcgt cgggtcttca gtcgtaccgg attccacagt taggtaatct 120

cccacgaaga gacctctcac acggtcggct agtcggggtc cgatttcttc ataacgaagt 180

ctcgctccgg aggcttaaga gtggaatcag aaccagtatc ataaaatagc gaagtcgcgg 240

ttaacgttcc cagtcgtcta actcacactc tggtaacata tccctcggcg catcgtctcg 300

tctagccgat gcttagcgag aaggaagaaa ccgaatagat accgaagagc ctccacacca 360

tctgcccgga ctgtctaaaa ggcggactac gcttaatcgc ctcgcatgca cctgtactag 420

attccttgaa aggagtatgc gcg 443

<210> 38907
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G7

<400> 38907

tggtctggac ctttgggctg atttatgtgc ttgtttatgt gcttggaaca actctcctcc 60

tattctatca atattagtca gtaatctccc tcgcttcgta acaacggttg tctgtcttct 120

tcttctttag ttgtagtcgg ctgtggtggt ggtggcttcg gtagtggtgt cgtcgtcgtc 180

ggtggtgggg gttgggatgg tgctggtggt ggcgagtcgt ggtgaggcga tgctgctggc 240

ggtgttgcgt tctgggcatg tgacgggtag tgtggtgctg tttcttgtgg tgcgtcgtag 300

tggggcgtgt ctgtctaata gttgtgtgct gctggtggtg gattggtagg ttattcgtaa 360

tcgttctaag agtacgatgg gttggtctgg tggtggtgct agtac 405

<210> 38908
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G8

<400> 38908

tggcctggaa cctttgggct gatttatgtg cttgtttatg tgcttgttta tgtgcttctt 60

tatctgcttg gatttatgtg cttgtagaag cacgattccc ttaattcccg gggcggctag 120

cgtaaatttc gacattgcgc ccgaagcggc ttctgactcc gacaaataca agtgacacga 180

gcgggacacg ccgatagtcg acccggagcc ggcggaaaga accgacggac atcatgacgc 240

ggcccacgga attcacgaat ttaaacaccc aaaccggcgg aaacttaaca aggaccccgc 300

ccctctctga taacggccct gcggataaga cggagtacac attaccccgt agatcttcgt 360

cggctacaat aaaagattct taaagtacgg tcatgagtga ataaagacta atttactaat 420

acgggaaaca aggatcccgc acat 444

<210> 38909
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G9

<400> 38909

cccacgcgtc cgcggacgcg tggggcagtt agcggagggt gcccaactcg tcggacccgc 60

ggcacaaccg ctgaagcgcc tgccattcgt gctgcttcca cggttccacc tctgctgtta 120

gttatacata ccgtacctct ggtcgcatgc tttttggctg cacaatgtgg cttggtattc 180

agacttcaga gaatttaatt gcgtatacga gagtaaatgt agctgatttt ggtctagctg 240

gtttgccgtt tcgagcgctt gtaaacacaa attcgtcggc agtttacacc gggccgtgtg 300

tatataaatt tcctgaagtc tgtgtcttcg ctc 333

<210> 38910
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H1

<400> 38910

tttgggctga tttatgtgct tgtttatgtg cttgttagat tattgtccct tctcatgagc 60

atgctgtcaa aggaagtact tcggatactt cgcgcagtta ggaggaccct ttgtcggact 120

catgtacgag gactgtgact aagattgtgg aagtgccgta gcattcgtac ctgctggaaa 180

tcggtgctat tggatatggt agtgctctgg tgcttattac atcttctgat aataattctg 240

cattgaagtc tattgagcct ctgaggctac gcatgtcgcc taagaagagt gagatcatcc 300

tcgccgccgg cgtcggagcg acgactatcg gtagttcctc agagaaagtc tcgaatgatg 360

atttgctttg tcatggtctg gcgccgacga attcggagag tgatgcgcat aggcctggtg 420

gtgcttcgac ggtgt 435

<210> 38911
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H10

<400> 38911

gcccggtgaa tccacctcgc ccgcagcgtt gtcggcgagc agcacccccg tagacgcctg 60

gggggagccg atcccgactt ggtcggtgct gatggcggcg tcgaagcaca tcgcggtccg 120

gtgccgcccg gagaacgttg ccttcctcaa ctgcaagaag aaggacccta accccgagaa 180

gtgcctcgag aagggccgcc aggtcacacg ctgcgtcctc agcctgttga aagaacttca 240

ccaaaagtgt cccaaggaaa tggatgaata tgctggttgc atgtattact acaccaacga 300

attcgacttc tgccgtaagg agc 323

<210> 38912
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F7

<400> 38912

tggctctgga cctttgggct gatttatgtg cttgccgctg cgttcataag agtagggcgg 60

gttcagctcc acggaatact cttattcgtc catcgtcaaa gtcccgttca caaaaccgca 120

atgttataaa tatcccataa ggtcctcttc cggcgaatca ttatattcgg gaaacgtccc 180

accctccccg cattgcggag cggtccgtac tcacgccaca catcggcgtt acagcaaccc 240

ctagaagtat agcgaagagc ccccaccacc cctacccccg ccgcatctcg atacgcgagt 300

ttcacaagca cggtaacccc ggtatggccc cgtagcagaa aaaaaaaaaa tcgaaaaaaa 360

aaaagggtgg ttgtctcaga ggacttaagt ccatgcatgt gcgtacgtga tgctacagtc 420

tcctcac 427

<210> 38913
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E3

<400> 38913

gaacctttgg tctgatttat gtgcttgttt atgtgcttgt ttatgtgctt gtttatcctg 60

cttgggtacg taaaaacgga ttcggggtga ccgatcggca taaagggtcg tagttcccag 120

cgagctacgt cagaataaag ggcctcataa gggccaaatc ctatagggaa ccggtcgtac 180

cgtcggaaga ggagtccctc tgtaggggaa tcctagcgcc attagtgggc gaataacccg 240

ggaaacggaa aggatcgtaa gaaagtatcg actgcgagac agcgcggtta ttaacggcca 300

ccgccacgaa cattcctccg gaaaaagacg aagacgacaa gcggaagggt acgggaaatt 360

aagagtcttc cgaccacccc ggagaacacg aagtaagcaa agtatgctac gttcacggct 420

ttctcgggta ttgcggcac 439

<210> 38914
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E4

<400> 38914

gaacctttgg gctgatttat gtgcttgggg agtcatcaga gaaggcctag aagattcatc 60

attcggctag ttctgccgat aatgatcgat gcttaggggg attcgcccgt cgttcctaag 120

actcgaccac gtctctacgg ctcgcaccgc cgcacggccg gatttaataa cacctccgta 180

cttttgatca taggctcgac tgttacgaaa gtcctcgcct acccgagtct gggggagctt 240

gtcagctcca ccccctccga ccctctccgg tccctcggaa ttacatgaac taacaagaaa 300

cgagtcgcgc ctatccctta aaaaaaaaaa aaaagaaaaa aagaaaaata caataaatac 360

aaaaaaaaaa aaaaagggtg gttgtctcag aggacttaag tccatgcatg tgcgtacgtg 420

atgctacagt ctcct 435

<210> 38915
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E5

<400> 38915

tggctctgga acctttgggc tgatttatgt gcttgtggat gtgcgggtcc cggagagtca 60

ggtaccccgt cgggcgtcgc ttacggcacg gcggaggtct cgcccaggag gcatatagaa 120

taaggaacgg acgaagagct ggttcataaa aatatcgctg agggtacaat cgggactact 180

ctgaaaatta ctctaaagaa agggacgtcc gaagcgcata atctcccgag tgaggaaggt 240

aaaaaggagc ctaataaggt ccacagtgta ctgccccatt tacgtacgga cacatctcat 300

gaacgtcacg aagacgcggt tctcggaagc gaaacttgga gtgcggcgcc ggtcgggtgg 360

atgccccacg agaaa 375

<210> 38916
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E6

<400> 38916

tggctctgga cctttgggct gatttatgtg cttgagaaag ggcttgaact gaacttgcgg 60

cgcatcgttt tccttctttt tataagttgt tggtgttgtt gcgaggatct tggtgaacgg 120

tgctttgtgc tgttctgggt tcttcttgtt gttgtgttgg tgttatatca ggttcttcaa 180

ggagccacgt atacgctaga agtcataata gctaatccct agtcccggcc ctcgtcatac 240

tcgaacgtct aaactcgttg agaagacgtc accatccatt caactttctc ttacattaag 300

cccggagcag gctacccgtc ctagataatg gagataagcc cgaggtcgcc gcgtttccta 360

cgggcgaact cgcaatcgac ggaatctccg tcaatcctcc aaagaaattc ggagatagag 420

ctgaggtcga cgaattcaca 440

<210> 38917
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E7

<400> 38917

tggctctgga acctttgggc tgatttatgt gcttgtacag agacaagcgg cggagaccgg 60

attactctcg gtaattgccc ggacccatac gacttcagaa caccggtaac ggtcgtcgtc 120

taatattgcc catccgaaga tgagcatgac gaacacatcg taataaataa caatgtcgtc 180

gcgccccgtt gtctcacacc ctcgaccccg acggtttcct cgtcttcgag gtacataccg 240

attaccatca atagcgacga cgaagacgac gtactcgtca ccccctctgtc accctccccg 300

agagttgtcg gacccccgtc gttacgtcac accacggtcc gggtcaccag cactacgtag 360

tgctaaagat aaagatagga agaagtaacg tcgccattaa tggaagcggt gactacct 418

<210> 38918
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E8

<400> 38918

tggcctggac ctttgggctg atttatgtgc ttgtttatgt gcttgtaagg gtcggcccaa 60

cgccctagta ataagccagc gtaagacccg gcaaacgttc ctccgaatcc agtggaaata 120

acgttactac cgccacggac gacgcagaca cttagtcagt cgcgtgactc gctccgcctg 180

tcgtcgccgg catagtagga taatgtcgta ttatacgctg caggtcgacc tcctacgaga 240

atacacacta aattccttcc gactagtccg ccgaggcaca taaataagct tgaaccgggg 300

acttgccgga gaaaggtatt ccatcgggat tatcgtatat cttcgtccta aaagagaatc 360

ccccgaaagg tacctagatc actaaactct agggagggaa aacttccccc ggaggactcg 420

ttaccgaact ag 432

<210> 38919
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E9

<400> 38919

atcactgttc tccttcctcc tctccgcttt tttgccgccg gccctgcgcc cccgccccgg 60

ctccccgcca cgccgaccgc gccctgcgcc tctacacctc aaatctgctt tgtagcataa 120

gctcgctgct tgttagggtc gatggcagag agggagcatc gaacagtatt tgtcacggtg 180

gggaccacgt gctttgatgc ccttgtcatg gccgtagatt ctccggaagt gaagaaggct 240

ttactgcaaa aaggttacag taatcttctc attcaaatgg gccgaggaac atatgttcca 300

tccaaggtca gtacgcttgt acctctgtag taaactaaca actatttaat tcctgtctac 360

tagtttgcat tatgacaatc tgtactcttt cttataggga tgttcgtaac tggtgattta 420

agtcatccta aatgaaaagg c 441

<210> 38920
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F1

<400> 38920

tggaaccttt gggctgattt atgtgcttgt agaaggaatg ggaaacggag tgagtaaacc 60

acaggtccgt cgcctagaga gtcataagag aagtatacga aagggtacct gttgaggcct 120

gagtcaaggt cgaaagaaca gtaccagaaa ggactattct agtatgctaa agagtacttg 180

tagaagttta tgagaaagaa gagaaggtaa ttgtctaagt agtctcggag taggtcctaa 240

gggaagtcag aacgaaagta gaatgcgtag ttgccgagag agtaatcgtc gaagtctggg 300

agagggtaac cgaaaaggta aaagtcgtcg tagacgtaaa ggagtgaacc gggaagccta 360

ggcttctccc taaggacagc cccaaagtat tcaactagga taactaatac gaggtactac 420

tctagaagat ggtccacaac a 441

<210> 38921
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F10

<400> 38921

cccacacatc cgaaaaaaaa aaaaaaaatt taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

agaaaaaaaa aaaaaaaaaa aaggaaaaaa aaaaaaaaca aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaca acaaacacaa aataaataaa aaatcagcac cc 162

<210> 38922
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F11

<400> 38922

cccacgcgtc cgcactcttg aagatgcaat tgggttattt gtcaagggtg atgtagatag 60

gcattcagtt tatgccactg cacttccttc gtcgcatcct agtttttctc ttcaacaagt 120

ccttgagatg tcagaaaagt ggaggtctcg gccactacca aaaggccccg tttccctttt 180

cattggaata ctgtctgcat caaatcattt cgctgagcgc atggctgtga ggaaaacatg 240

gatgcaggct ccagaaatta agtcttttga agccgtggct cgattctttg ttgcactgaa 300

ttcaaggaaa gaggtcaatg taatgttgaa gaaagaagca gaatacttcg gagacattgt 360

cattttgcca tttatagacc gctatgagct gggtgttctt aagacaattg ctatctgtga 420

gtatggggtc cagaacttga ctgctgcaaa ca 452

<210> 38923
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F2

<400> 38923

gaacctttgg gctgatttat gtgcttggcc ctctctctgc tgtgtaatac tagagcctaa 60

gtgaggaatt tagcttagct ttgggaacgg agcgtgcacc gggtgcggcc ggttgtgatc 120

ctgtgtcggc ggtggttgat atccttgttg cgtagagcac ctctgcttat aagattgatg 180

aggataaggc gacggcgtct gatctgtaaa agtcgacggg tgtcctaggg gagttcggcg 240

actgggcgta acccatggag cctacataga agaattcata ttcgcattag ccttggaata 300

ttactttgtc tctaattgtt gttgttgtta atcctatatg tggtgaatct gttatagttt 360

cctgtaagaa cttacacacg gctaacacca cctccggcgg ccacgacaag gacgccggcg 420

tcctttctca tcatactga 439

<210> 38924
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F3

<400> 38924

aacctttggg ctgatttatg tgcttgtgga tgtgcgggcc tgttgttgct gttcgcctct 60

cgccgttgct gttacgggga gaagggtcgt gagacgtcac tgttagacta agaataagtt 120

acattttaag cttaggcatc gttgcggcgc tttcgatttt aagactagga ctcatgacgc 180

cggtacgaag agaaagggcg ccgacgagcc ttttcatcgc gcgtattccg ctctccggga 240

gaaggagaac gctcttagcg aggtctccga ggtcgtttgc accgttcgta ataagcatac 300

gattaagctc gtaggaaagg acgttcctta ttcctgggct tgggcctatt ttccttacgc 360

ttcctgcact aataagacgt ccctgcgcgt cggggtcgac aggtcttaga tcggaacgaa 420

gggcgttccc ggta 434

<210> 38925
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-F4

<400> 38925

gaacctttgg gctgatttat gtgcttgtgg atgtgcgggt cagtataagt acagcgcagg 60

ggtccggtat tcaagcaagg ttcgagagtt acggtactta aggttgggtc tcctccggtc 120

tctaattctt cgcctcctat ggcggttaat gttcgtggta gtcgtttgat tttaatgttt 180

ttggctgagt tattgatgct gttcttcgtc gtcattttat ttttcctgct tagtggtaag 240

cgtttgtcga atgtgtctaa gcctggtgcg cgtgttgacg cgtctggttc tgctaaaggt 300

gaggccggta aggcgttcgt tgagttgcgt cgcatttcta ctaaaggttc cgtggatcct 360

gaagttgttg ctcgttctcg tatggntact aaggttaatg cgtctggtgc tgctactgac 420

gcttttacta agtctagtgt ttt 443

<210> 38926
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F5

<400> 38926

tggctctgga acctttgggc tgatttatgt gcttgagaga aacggtcatt taaggacgag 60

cgggaattca caaactttcc atcggccgga cccgggtaaa tcactcgcat cttatcgagg 120

tttaaacgtg acaagcgcgg tactaataat tcccgtttcc tcgtccccaa ggaactacta 180

agtttaacct taaagtaaaa gaaaataagg ctcttacaga atctcgatcg cgatccgctc 240

ggtattgatg cgagacaaca ccccgggccg cttgctggcg gcaaacacca cgcggccctt 300

ccccggctag ccaccgccgg actattccgg cgttgcatta ccggtacccg gtaagctacg 360

cacactaccc cgcacattgg caaaccgcct aagatggcac gaagatatgt ccactcatta 420

gccatcgcaa aaagcatcgg caaaaa 446

<210> 38927
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F6

<400> 38927

tggcctggaa cctttgggct gatttatgtg cttgcgcaat cggaagtgag gctctggcgt 60

tgccgtttct cgttctgcat gcttctggtg tcgtgggagt gcgtaccgcc gagtgagcgt 120

ggttaagtaa tgtgggtctg aggagacgac gtcgagtggg tatggtggtg ggaggtgttc 180

gcctatggtg ctgtagcggt aggagtctga gtattaggtg tctactccta agcatacggt 240

tctgggtgtg tttgcgttgt atgattctgc ttcattgtct tgttctgtta ttggtgctga 300

tattgtgttt ctttctgttc ctttgttgta gttcctgttg ctgtcggtgc atcggggtcg 360

tcatggtgtg ggggtgttgc ctggttgtaa ggtggtggag gatatggagt tggcgtggcg 420

ttggtggatg gatggtaaga a 441

<210> 38928
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E2

<400> 38928

tttgggctga tttatgtgct tgtttatgtg catgagtcta tgcgggtgga tctgtgcggc 60

catagacgtt ctgagcaaac cgggttagga tttacagagt aacggttatt ttaacgcccc 120

gaacaaaaaa agaaatctta atctgaccta cagacctcta tctagaatcg tcgtatgctg 180

tagcgtaagt gcgccgtcgg tcctgtttag tcctcccccc cgttcgcgac ccgtatgata 240

cccacaccca ccgaaactcc gtagaactgt ccgatgacga acaaaaaaaa aaaaaaaaaa 300

acaaaaaaaa aaaaagggtg gttgtctcag aggacttaag tccatgcatg tgcgtacgtc 360

atgctacagt ctcctcacag cgctattcaa acctaaccta tcggttgctg ccccataatg 420

cctgcgatcg ggaaaatttt tt 442

<210> 38929
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-D1

<400> 38929

aacctttggg ctgatttatg tgcttggcga aggagtcgat ggagtggact aaagcctcgg 60

acgaggagac tggtgttctc gttgaggatt cggattcttc aaatattccg aaagtcctcc 120

tgcttagtgg tagtaatgag acgacggcga ggaatcttat taagcctgat gctgagaggt 180

ggngtaatgg gagtatgagg actgagactc gtcgcgttat anattttgag gcgtcgccgc 240

ttatggcaag tgtgtcggag gcgtcgggtt cggagactga gtagcgtgcg gcgagtcgtc 300

ctagtgatcc cggtacgtan gttctccgtc tataagagga ggaggaggat ggcaacaaca 360

agaggtaagc ctcaagtatt gatgagacaa aataggttcc gccctggagc gtcggtca 418

<210> 38930
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D10

<400> 38930

gcctcgtaac acccatcctc ctgaaactgt cgctattgaa atgaacaatg atgctggaag 60

gggtcagaca ccacaacaat tgcggttgcc acggacaaag gatgttattg taaatggggt 120

cattgtgaag gtcaagtact gtgacacctg catgctgtac agaccacctc gatgctcaca 180

ctgctctatc tgtaataact gtgtggagcg ctttgaccac cactgcccct gggttggcca 240

atgcatagga ttgcgcaatt atcggttctt ctatatgttt gtattctcta caacattact 300

gtgcctttat gtatttggtt tctgctgggt gtacattatc aagattagag acgcagaaca 360

gtcgtcgatc tggaaagcaa tgttgaagac ttcagcataa atggttctga tcatatactg 420

ctgcatctgt gtgt 434

<210> 38931
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D11

<400> 38931

cccacgcgtc cgagcgaaca gagcactgtt gcagagcgag cgagctgtcc ggccaaaccg 60

tcacggccgc ctccacaatg cgcgcgccat ctcgcgctgc tcctgcccct gctactgctg 120

gcctcgccgg cggccacgcg cctggcgtcc gccgcctgcg cgggcgagaa gttcccggcg 180

gggcgtgcgt acgcgtcgtg cgaggacctg ccgaagctgg gcgcgtcgct gcactggacg 240

tacgacgcgt ccaagagctc cctgtcggtg gcgttcgtgg cggcgcccgc agcagcgggc 300

ggatgggtgg cgtggggcct gaacccgacg ggcgagggca tggccggcgc gcaagcgctg 360

gtggcgctgg cggaggccgg ggccgcggcg cccgccgtgc ggacgtacaa catcacgggg 420

tacgtcccgc tgggcaaggc ctacacg 447

<210> 38932
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D12

<400> 38932

gccctcctcg cgacgcagtg cgaccacgct tccaccttca cctgggaacc gcgaccgctg 60

gatgaagagg ggatcagatt tgctcatcgc gacctacctt gggggttcat tttgtgttgt 120

tgggttggat ggggagaagt gtcgagcaca tggtgcttgc agtttggttt gtttgtgttg 180

atgatttctc tgtggggcgt tgcagggaag atgggggtcg aggagaggca ggcgcagaag 240

agctccttag aggagcattc caagaacctc atcggcgatg ccatgatgct ggactcccgc 300

gctgtcaatc tcgacaaggg gccaccctgt cgctctggac aaggggggctg ccctaaggtc 360

ctgtttttgc tttcttcaga tgaaggaaca tctatcctgg agcttgttgc tggaataggt 420

tgtttcactg gagaactcgc t 441

<210> 38933
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D2

<400> 38933

ctttgggctg atttatgtgc ttggagtatt cacaatctta acagccccgt tacccgccta 60

tctcggccct gaaaaggcta cgtgagaaaa tctgcctccc ggatggtgat tattggcttt 120

atctcgtagc aagaagacag acactaccgc cggagagtta acagagcccg attcgttaag 180

tccgaagtaa gaagtactaa tggcatttta cgatctactt ctcgaatgga aggggcggtt 240

ggttaccata ttggacgggt cggatgaggt tgtttagaga cggtcccatt agaagacgct 300

agataaggct tagctcgcga cggagagatc gtggaaaata gccattaatt ccaagtagtg 360

ccgactccta ctcactaggt aacattccgc cgaatcgtcg accaggacct cccaattagt 420

ccgagccggc ggac 434

<210> 38934
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D3

<400> 38934

ggaactttgg gctgatttat gtgcttgtat agtcagtcag tacatagatg aacaaccctc 60

ctcctattct atcaatatta gtcagtagtc tcgctctctt cgtaacaacg gttgtctgtc 120

ttcttcttct ttagttgtag tcggctgtgg tggtggtggc ttcggtagtg gtgtcgtcgt 180

cgtcggtggt gggggttggg atggtgctgg tggtggcgag tcgtggtgag gcgatgctgc 240

tggcggtgtt gcgttctggg catgtgacgg gtagtgtggt gctgtttctt gtggtgcgtc 300

gtagtggggc gtgtctgtct aatagttgtg tgctgctagt ggtagattgg taggttattc 360

gtaatcgttc taagagtacg atgggttggt ctggtggtcg tgctagtacg gttaatgttg 420

ataatacttt tggta 435

<210> 38935
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D4

<400> 38935

tgatttatgt gcttgtatat gtgcttgcat acccggtata cccgcacaac ccaaaaaaaa 60

caatataaga aaaagggaaa ggctctaacc gaaaaaacga aaagtatgac atcaacctcg 120

ttagttgtaa aaaagacaca aacgacgccg attcagtaga gacctaatcg ttgactctga 180

agtaagatgt ac 192

<210> 38936
<211> 424

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D5

<400> 38936

tggctctgga acctttgggc tgatttatgt gcttgtttat gtgcttgttt atgtgcttgc 60

ttatctgctt gtggatgtgc gggtggagta atgttgttgt tgttactcct agttcacttg 120

tgtcggatgg taataaggtg aggactggtg agtctggtgt gacgaggttg tcggcggagt 180

cttctgagta tggtagtatg gtagtgagga aagatgtggt tctggttact cctaattcgc 240

gtatgtcgta tgagaataag ctgtgggtta ttaagagtgg ggttgctgat gcgatgtcga 300

gggttgctgt tcgtgttggg gatggtctcg gtcttggtct gtcggcggat gagctctcgg 360

ttgcttctgt gtcgtcgctg ggtgattatg aggtggcgga ggaggctggt gagatgggtg 420

gtgc 424

<210> 38937
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D6

<400> 38937

tggctctgga acctttgggc tgatttatgt gcttgagtat ccccagatca ggtagccccc 60

agccccaggt attccgaaac gctcactcta tctagctaca gagggcccga agtagttctc 120

ctgtacccgt aggggaagct ccgttctccc acaacccttt tgaattttat ccaccagggc 180

ccgcctggcc acccctactt acacggaccg gaggggaccg acatggaccc ggagagaccc 240

cgatccatca gagaccgaaa tttttctaac ttggtctaac atacacggac cggggccgaa 300

ttgaataagg gagttcgcgg cgtcgggctc gtttacccac gcccacaccg ggtacacaga 360

atcagagaag agcaaacgac gccctcacat aagtatcgac actgagggaa cgctcaccct 420

tcccctaca tctttac 437

<210> 38938
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D7

<400> 38938

gaacgaaggt tggctgtctt actcgtcgtt aaatgtaggc tgatgtacaa gtcgtggcta 60

tggtagccat ctcgtcgtgc tcggtcgtcg ctatttacga tggccctagt tgtagcgagt 120

cgtactcaga gaatgcctga tcgcagtata gacttcaagg catctaacgg gtactgtcgt 180

acacgttctt gtggtgcgtc tgtataggga gtgtctgtct aatagtctcg tgtacctacg 240

tagacgaatg gtacgctatt cgtaatc 267

<210> 38939
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D8

<400> 38939

tggctctgga acctttgggc tgatttatgt gcttgagttc tccatctacg acgaagtccc 60

ctccctaagg gatacttatt cctcttagtc ccgtgtcgga acagacgaga aactcgcggg 120

ccttcttcct tagtccgcgc ccgtattaac cgacgagtac cctttagacg acgtcttacc 180

gaccctcctc ggtccctgcg ctacattatc cgacgcgaaa atagacggcg cacttctcgg 240

caggatgtca gacccggtac tcagctccga cgcgggtctc gtcgtatttt aagttctagg 300

ggacgtactc ttagacgatc gtaacccgag actcgcgtcg ataactgttc cctaaccttt 360

gcacgagacg tattcctagg atagtgccgt agtaacggtt tgctaacacg cctgcagcgc 420

taccctcgtc gcgtaaagag c 441

<210> 38940
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-E1

<400> 38940

aacctttggg ctgatttatg tgcttgttat cgtttaagag tcgatggagg agaagctgtc 60

cgtccatcta cgttctgagc aaacctgatt atatttagag agtaaccgtt attttaacgc 120

cccgaacaaa aaaagaaatc ttaatctgac ctacagacct ctatctagaa tcgtcgtatg 180

ctgtagcgta ggtgcgccgt cggtcctgtt tagtcctccc ccccgttcgc gacccgtatg 240

atacccacac ccaccgaaac tccgtagaac tgtccgatga cgaaaaaaaa aaaaaaaaaa 300

aaaaaaaaaa aaaaaaaagg gtggttgtct cagaggactt aagtccatgc atgtgcgtac 360

gtgatgctac agtctcctca cagcgctatt caaacctaac ctatcggttg ctgccccata 420

atgcngcgat cgggaaaatt tttt 444

<210> 38941
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E10

<400> 38941

cccacgcgtc cgcccacgcg tccgcccact cgtccgcgga cgcgtgggca aatgcgtggg 60

tttgagacaa tgtacaatgg tcacactgga agaaaactga ctgcgatgat tttcctgggc 120

cccacatatt accaaagact caagcacatg gtggatgaca agatacattc gagaggacgt 180

ggtcctgtgc agatactcac ccggcaacca gcagaggggc ggtctcgtga tggaggtctc 240

cgctttggag aaatggaaag ggattgtatg atcgcacatg gagcagcttt cttcctgaag 300

gaaaggctgt ttgaccagag tgacgcatac agagtccatg tatgcgagaa atgtggtctt 360

atcgcaattg cttaacctaa agaaa 385

<210> 38942
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-E11

<400> 38942

cccacgcgtc cgcggacgcg tgggcgcctg ttcgcagccg gtgcctgctc cttcccgatc 60

cgggaggcaa agctgcgact ccgcaaccgc cgccatggcg ttcgagaaga tcaaggtctc 120

caacccaatc gtcgagatgg acggtgatga gatgaccagg gtattctggc agtctatcaa 180

ggacaagctt atcctcccat ttctggacct ggacatcaag tactatgatt tggggatact 240

gcaccgtgaa gcaactgatg acatggtcac agtggaagct gcagaggcta ctctcaagta 300

caacgtggct attaagtgtg cgaccattac tccagatgaa actcgggtta aggagttcaa 360

tctgaaacac atgtggaaga gcccaaatgg cacaattagg aacattataa atggcactgt 420

gttcagagag cctattatat gcanaaacgt tccaaga 457

<210> 38943
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E12

<400> 38943

cccacgcgtc cggtgacgtg cgtgaggtgt ttggagtcgg acggaatcga aaaggcgacg 60

actcattgcc tggagtttcc tgggagcgga agcgaaggct gtgaagggag ggaaaggctt 120

gctcgccgcg aagactacgg ctgccaagtc cgccgagaag gacaagggga agaaggcccc 180

aatctcacgc tcctcccgag ccggcctcca gttccctgtt gggcgtatcc accgtcagct 240

gaagcaaagg act 253

<210> 38944
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C8

<400> 38944

tggtctggac ctttgggctg atttatgtgc ttgtttatgt gcttgttaag ccgcagccgt 60

ctcttcttga gaatttctgt tgttgttgtt tattggagtc ttggcccgta gcctcctgtc 120

gaaggttacg gattatgata ggtttccata cggcgaccgg cgacggcggc gaccgaattc 180

cgccatccgc cagtaatcgg taccgaacct gttgagtatg ctggtcaccc tgtcggaggc 240

gacgggttat tagtcataca ccctatagga cttaaatctt aagtattacg ggattatggc 300

tcgggacgta ctaacggcgc ccgctaagcc cccggaaaag aacagtagaa aaggctgtcc 360

ccgcttgctt aaatcaaaag gaaagagagc gaccgaaccg ggagtcggtc gtggctcact 420

cgggcctgga acg 433

<210> 38945
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B3

<400> 38945

aacctttggg ctgatttatg tgcttggagg agacggacct ctggctagca cctaccggaa 60

acgccgatca cgtgcgtatc ttagaagaag cgtagtagta tcctaacctc cgcggaatcg 120

ctaatagagc cataacttcg atcgataagc ccgggtaatt aaaaggcccc gtccatgcgg 180

aacccgcgga agccgaagtc gcctaggaag tcactaagcc gaatgagcta gagccgtatg 240

gctgttaatc taaggcggta ttgaagagga tcaatgcctt cgggacgaag taattttgtg 300

gctgaggccc taacttgcat tacggttatt ttcatacgag gttgcacggc cacagcttcc 360

acggccacgg gagacctttt agaccttgtt gtttgtgaag attccacccc cgaagtctgg 420

cctttacccg gtagaata 438

<210> 38946
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B4

<400> 38946

ctttgggctg atttatgtgc ttgtttatgt gcttgtttat gtgcttgtcc tccctcgttc 60

tggtatttgg gttcccgttc cgcgaataaa agctgctgtg ccttctccgg tcgacgaaac 120

ttctcctctg ctcagactcg agttcttgtt cgctccctgg actagacgtc cggcttgact 180

gaataatggc gagctccgtc tcgccacccg accgcctcaa atgtacggcc ccgccccccgc 240

gacgacgcgt aggccttgac tcgccctgcc cgaccgacga gccgatgtac tggtctgaaa 300

tgaggtcgta cggcccccgc gttcggaggc cctcgaccag tgcgcccaag gaaatcgggc 360

gttataaccc gccgtcagaa gcgtctgact tgctgaaccg acactcgttg agtcgtgatg 420

ccttggggga ctcc 434

<210> 38947
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B5

<400> 38947

gaacctttgg gttgtctcag aggacttaag tccatgcatg tgcgtacgtg ctgctacagt 60

ctcctcacag cgctattcaa acctaaccta tcggttgctg ccccataatg ctgcgatcgg 120

gaaaatttcg gtgccattta atccaactgt tccgtagtat acttttttccc tgttagtcgg 180

tgcaacagtg aagaggtttg tattgactgt ttcctttaat agccgtgtag ttcgaacggt 240

gaacgggatg tgtttcgcag tggtgtacca agtgtggtgg gcgcggcggc catgtgtagt 300

gcgattgtca tatccgttag tgtttcagtg tttgtcttcc ctgtccctcc tttccatccc 360

tctgttatgc ctgttggtcc cttttgctaa gtctcaaaac tggggt 406

<210> 38948
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B6

<400> 38948

tggctctgga acctttgggc tgatttatgt gcttgggcga gaataaagag tcgtgggctg 60

gggccccgac ccgccggacg acactccgcc gggccacaaa gtcgaacgat taacggacac 120

cggtaccata acagatatat caaaaacaca cgtcgaaagc tagaaataaa acataacaga 180

gccgcgaaga aggcaccccc gataatcacg tactgcattc actccggcgg tgaaactaat 240

cctatcgacg gactcaccaa tttaaaactc atagcgggaa tcttcgtaca taccgtctac 300

gaggcctcct cggagaagga acataacgga aaggccgtcg acgcgcggct acgtggagcg 360

atgttacatg cgacgtcgat gactattact ttcgagacaa gaaattactt acggcctccg 420

aag 423

<210> 38949
<211> 224

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B7

<400> 38949

cggtcggcgg tggcgggtac tccattcctc ggcggcgggc ccggccgaag gtacgggtac 60

ccgccgggtt cacgtcgcga gagtgtcgcg acgcgggcat taaacaacgg agtctggtcc 120

acgtgcaaaa aaaaaaaagg gcacaaacag aaaaaaaaaa aaaggggggg tgtctcacag 180

gggtttaatc cctacatgtg cgcacacgat agcgcacact cccc 224

<210> 38950
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B8

<400> 38950

ctttaggctg atttatgtgc ttgtaagcaa gtcgggactt tatctcccca gactcgtgga 60

taggcgtcaa gctccgggga tggacgtacc accaagcggg aaggacgtag taacgtggtc 120

acagcttcta cactcagtcg tcgtcgacca ctacacaatt cttcaccgtt agacacataa 180

ttcgatacgg cttctcgcaa gtcgaacgtc acgaatgtct agcccctcga cctttaagcc 240

acggactatt taaaacgtca cgaagaatcc tcgaagcgaa atactgatac 290

<210> 38951
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B9

<400> 38951

tattctagcg cgattcatta cagaagccct cgctgaacaa caccctactg catacaaccg 60

cattgccact cataaaggat atagatcact atgaaatata taaaggctat gatgctataa 120

actcagcatc ttagaggtca tatatgatcc tgatccttac at 162

<210> 38952
<211> 405

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C1

<400> 38952

gaacctttgg gctgatttat gtgcttgttt atgtgcttgg accgagtccg ctttatctct 60

cctacgccga agaaactaaa ggttcgcgcg tcttcttatt acggggcgag gagtcgtttc 120

cgctagtacc tcgtaggata agcgccagcg atcgggaggt tcctaggagt actgatacgg 180

acgtcgaggt aagaccgacg taatatacga aatgactact tgaaaaataa aggatctacg 240

ctgatgaaga cgaaccgacc gtctcgaacg tccggtgctg cacaggctgt taaataagag 300

aagtcaccaa gaaaaaaccc tcattcgact catcctaaac acacgaagaa taggccaggg 360

ttcctaccga aggcatcggc gatagtgata cgtccgcgtc gaacg 405

<210> 38953
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C11

<400> 38953

cccgcgcgtc cgtccacgcg ttcgcactgt ccctgcctat ttcaacgact cgcagaggca 60

gaccacatta gatgctgggg tgattgctgg cctcaatgtg ctgcgtatca tcaatgagcc 120

aaccgctgct gctattgcct atggtcttga caagaaggca accagtgtct gtgagaagaa 180

tgtcctcatt tttgaccttg gatgtggtac cttcgatgtc tccctgctta caattgagga 240

aggtatcttt gaagttcaag gccacagctg gcgacaccca tcttggtggt gaggactttg 300

acaacaggat ggttaaccac tttgtccagg agttcaagag aaagaacaag agggatatca 360

ctggcaaccc gagggctctt cggcggctga ggacctcttg tgaga 405

<210> 38954
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C12

<400> 38954

atacctgaga gtgctgctgc ttaaaagggg cgttattaaa cggcttaggg tgatcatgaa 60

caccatgagc atgataatga acacgaccat gaccatcatc accatcatga tcatgatcat 120

gatcatcatg cacatgacca cactc 145

<210> 38955
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C2

<400> 38955

gaacctttgg gctgatttat gtgcttgtgg atgtgcggtg gatgtgcggg tggatccccg 60

ggtcgatgtg cgggcgtcaa taggcagcga tcgtccaacc accgttcccc ggccatccac 120

tgcgggggta gctccctttt cattgcttga gcccccacca cgccacaccc gtacacctct 180

agacacataa ttcgacctcg ctcgtaagaa gtcgggctta aagcatgtcc acaccttaga 240

cgtcgagcca aaggactatt tagaccctca cgaagactcc tcgagggaaa acaccgatac 300

gatcgccagg tcagcagcaa gtcataacgg ctctagtacc ggtatagcct gagacgtacc 360

cgagaagctc tccggtccat ggccgtaaaa gacgaacttc aacatcgacc acggccgtcc 420

gaagataccc 430

<210> 38956
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C3

<400> 38956

ggaactttgg gctgatttat gtgcttggag agtctggtct ttcatatgat actactccgg 60

atgttgtttt gtcttctgtc tcttctgctg tggttgagct ttctcttgtg gtggtggtgg 120

gtgatggtgt gtatttgggt catcttgatg agggtattcg tatggcggat gttgttggag 180

tgggtgcggg tctgggtttg gagtcgtggt gttcggagga gtgttggttt gggtgtacta 240

ctgatactat gtatgtgcat gcgttggatt cctcggtgcc tgtgttgggg gtcgctatgg 300

ggtttccggc ttattctaag gagcttacgg tgaatgggct tgagcataat tcgctggagt 360

cgtggccgga gcgttatacg ggtatttatg ctgatgtgtt aggttatacg aattaaggtt 420

at 422

<210> 38957
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C4

<400> 38957

tggaaccttt gggctgattt atgtgcttga gaaggtagag tactccttat tctggggacg 60

agggcggtgt tgttgttgcg tattattggg ctagtgctgc tggtgtggtg ctgctgctta 120

cggttacggg tggtggtggt ggtggttggt gcgtctgtga gtgcgagtgt tctgctgcgg 180

ggtcttagac ttcggcgtat tattattatt atggttggta tgggtatggg tatgtgtatg 240

tggtgaatgc agcttcgaag tagacggcga ggttgtgtgt tgttgtcggt ctgtgttatg 300

gttatggtcg ttatgttcct ctgcgtagcc cttctaaggt tcgtcattct cgtaagtggg 360

agtccagttt cgataaggat gctcacacgc acagaggcga ttaggggcct cgtagtgagg 420

agcgttggcg gtagta 436

<210> 38958
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C5

<400> 38958

cgtctgcatt ggctctggaa cctttgggct gatttatgtg cttgagacaa acaaaagctc 60

gccagtctct aagcgcaacg tacctgagta tccgacaacg actagacata taccttccct 120

agaggaagta agtccatcga ggcttcctgc gatctacccg ccggcaatct caggatagcg 180

acgaccctcc gtaccctctt aaatgtaggc ctacgcgaat atatatcaaa cataccgaga 240

catgtcgaca gggctaaaag ctcccttaag ggtggaaaca taagaaaaga gtagcttata 300

ggattaatca ttatcctcag ttgggacctc ccgctagtcc cactacacct accgttcgtc 360

gaagtcgaag aaaccttcaa ctaagcctaa gagaagagat tagctgacat ccacaggaag 420

ggtatcgaaa accccactct taatttcct 449

<210> 38959
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C6

<400> 38959

tggctctgga acctttgggc tgatttatgt gcttgtggat gtgcgggctt cgaaatcgcc 60

tagccaatct aggttttacg tgtccgtcgc cgccagcctc cctggaactt tcgacgttcc 120

ttccagctta tccgtccccg atcggaccga ggtaaacgta tcgctaattg ggagttatcg 180

actctaggcc cttatacatg agttaggcca cttcgcgaaa gcatcgaaca ccgacggtgg 240

ggtacagaca ttgcacaatc ataggagtat ccgccgctct ggaataaacc gccgcgaact 300

tcgccccgca caacagcccc tccgaacaca agtgaatgca gttcaatagg ttaaagctta 360

cgcaacgggg cccataatag caacaatccg tagagcgacg caagtgagcc gccgagtagc 420

aaacaaaaca tctccgcttt aaaaa 445

<210> 38960
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C7

<400> 38960

tggcctggaa cctttgggct gatttatgtg cttgtttatg tgcttgttta tgtgcttgct 60

tatctgcttg tttatgtgct tgtttatgtg cttgcagcct cagactgtga gtgggtgtct 120

cagaggactt aagtccatgc atgtgcgtac gtgatgctac agtctcctca cagcgctatt 180

caaacctaac ctatcggttg ctgccccata atgctgcgat cgggaaaatt tcggtgccat 240

ttaatccaac tgttccgtag tatacttttt ccctgttagt cggtgcaaca gtgaagaggt 300

ttgtattgac tgtttccttt aatagccgtg tagttcgaac ggtgaacggg atgtgtttcg 360

cagtggtgta ccaagtgtgg tgggcgcggc ggccatgtgt agtgcgattg tcatatccgt 420

tagtgtttca gtgtttgt 438

<210> 38961
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-B2

<400> 38961

ctttgggctg atttatgtgc ttgtctaatc ctgatgttga gaggatgatg ttccctaagg 60

agtggttggt tccgctgatc ttggctaagg attgtgtcgg cggtgtgatg ttcgttaggg 120

agtgtggggt cgtggtgatg ttcggcaggg agtggattgt tgtggtgctg ttggtgtcga 180

gtctcgtgct gccgaggaag agtagtagtg cgtcgtttag gtcgattagg agtaagagtc 240

ccgctgtgga tagggactag tagtacttta ggacttttaa gagtttacct tttatcgaga 300

agagtctggc gagtcgtata gttctgaggg tgatgaggag ggcggttaag gaggaagagt 360

ttcttctgtt cntcctcgac gacgagtctg gaagtctggn tatacttatt aagaagtgac 420

tggtgata 428

<210> 38962
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H7

<400> 38962

cggacgcgtg ggctctaggg tttttgattt tagccgccgc cgctgctcat ctcagatccg 60

tcgagaagac gcctgctcct cgccgatcga tacgatggcc gtcttctccg acctccacac 120

cgccgacggc ctcaagtccc tcgaggctca cctcgccggc aaaacctatg tgtctggtga 180

ctccattact aaggatgaca ttaaggtctt cgccgcggtg ccgtcgaagc ctggcgctga 240

gtttcctaat gccgcccgct ggtacgagac cgtctctgcg gctgtagcct caagattccc 300

tggtaaggct gttggtgtaa atctgcctgc gggatcagct cctgcggcag ctgctcctgc 360

ggatgaagct taggatgatg atgaccttga tccttttggt gatgaaa 407

<210> 38963

<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-H8

<400> 38963

gcgacagcaa gaaagcggac cccaacctgc tgggggggcgc catggtcggc gggcccgacg 60

ggaacgacgg cttcaaggac tcgcgcaaca ccttcgggca gaacgagccg acgctggtag 120

gcaacgccgg cctcgtcgcg gccctggtgg ctctcaccag cagcggcagg ggagtcggcg 180

taaccgccgt cgacaagaac accatgttct ccgccgtgcc gccaatgttc cccgccgcgc 240

cgncaccacc gtcatcatgg aagccatgac gaccgtgaac attcatggtc atacgatttt 300

ttgtgatcga tcacgtacgc gcgcgaattc tcttctgtac aataccacac gtaaattaac 360

agtacgtgta agcaaatata tagtacgtag cgcacggtgg atcatcggnc ggacatgctt 420

cacgtgtgat ggttntctat ggataatgag tg 452

<210> 38964
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A1

<400> 38964

gacctttggg ctgatttatg tgcttggaac tgtaccctcc gtctcccggc tctcttagaa 60

ctacttcttg gttagtggcc tccggggcat ctgcctgacc gtcctattac ctcccttcgt 120

cttcgtctcc cggtaccccc cctatcttct ttactgaacc gctaacttag gaactccttt 180

gagacctgtc cgtttatttc ccctccccta agcggactcg aatccgggag ggaattttga 240

cgtagttgtg gcatggagaa gtatgatagt tgtcgttggg gtggcatgtg tcgcattatc 300

ctggtattag tggtgttgtt gctgttgttg ttattgttgc gatttacttg cctgacgcca 360

ctaaagctag gtcctaaacg tagtccgtcg ggtaaagaag aaatccagcc ggaacggcat 420

ccaaagctat agtattcata gggggg 446

<210> 38965
<211> 425

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A10

<400> 38965

cgaagatggt gtcgctgaag ctgcagaagt tgctcgccgc gagcgtcctc aagtgtgggg 60

ggggcaaagt ctggcttgac cgcaatgaag tcagcgagat ctccatggct aactcccgcc 120

agaacatccg gaaattggtt aaggatgggt ttatcatcag gaagcctcag aaggttcact 180

ctaggtcccg tgcaagaagg gcacatgagg ccaagcagaa gggaaggcac tctggatacg 240

gcaagcgcag gggtaccagg gaggctaggc tccccaccaa gattctgtgg atgaggagga 300

tgcgtgttct gaagcgcctg ctccgcaagt accgtgaggc caagaagatt gacaagcaca 360

tgtatcatga catgtacatg aaggtcaagg gtaatatgtt taagaacagg atggtactta 420

tggag 425

<210> 38966
<211> 152
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A11

<400> 38966

gcattgttga aaagcatcaa gttggactta aagaagcttg aaaacaaagt taggtttatg 60

cgctgtgttg ttgataatga aattatagtt aacaaccggt aaagggcaga tctatttttg 120

gagcttcggc agaagaattg tgatcctttc cc 152

<210> 38967
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A2

<400> 38967

aacctttggg ctgatttatg tgcttgttta tgtgcttgtt tatgtgcttg ggtcgccggt 60

agcctcggac taaacggcaa tggttgggaa taaattggca aactcgaaag ttagcgacct 120

tattactgag agcctgagat atgaacccag cacataggcc cgcccctcgg agaccgaaga 180

ggggacagcg tatacagaaa aatcgcctat cgcggcccac tgagacccca gccgacatcg 240

ttgaagcaca accgcgtaga ctgtaagacc ggccgctcgt cacgtccacc gtccacggta 300

cgaccctctg ctaagccgca tccgagctag caccctcgta tggtcaccaa ctctcatacg 360

gcatctcgcc taaaaaaaaa aaaaaaaggg tggttgtctc agaggactta agtccatgca 420

tgtgcgtacg 430

<210> 38968
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A3

<400> 38968

cctgatttat gtgcttgttt atgtgttgaa aaaaaaaaaa aaaaaacaca aacccaaaaa 60

aaaaaaaaaa aataaaaagg gaatggataa accaacacga gtttgtgcca ccatattact 120

acgtgataat acaatcaact cacagcgtaa tccaaaccca acctaaccgt tgatggcaca 180

taatatacag atcaatcaaa tttcggtgcc aactaatcca acagttcact tctatacatc 240

tccccccgtta atacgtgcaa aatttaacag cttcgcatcg actgtccact ttactagccg 300

tttagatcga acgttcaacc g 321

<210> 38969
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A4

<400> 38969

gaactttggg ctgatttatg tgcttgtgaa caactctcct cctattctat caataccagt 60

cagtaatctc cctctcttcg taacaagggt tgtctgtctt cttcttcgtt agttgtagtc 120

ggctgtggtg gtggtggctt cggtagtggt gtcgtcgtcg tcggtggtgg gggttgggat 180

ggtgctggtg gtggcgagtc gtggtgaggc gatgctgctg gcggtgttgc gttctgggca 240

tgtgacgggt agtgtggtgc tgtttcttgt ggtgcgtcgt agtggggcgt gt 292

<210> 38970
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A5

<400> 38970

aacctttggg ctgatttatg tgcttgtaaa gtcccataat aaagatttac ccttacaaag 60

aatattaaac aaacaagata ccacttatat aaaaaaccat aaacaaacac gcagggctaa 120

ttaaaagttc gtactctagc ctcgccatgt acgcacatct cgtatcctaa aggatacgcc 180

ctagagccaa gatcatatcg aaaaatcgtc gcggagcact acaatactgc cccgcttcac 240

ctgacgtagg cgatgaccgt actcttactt agataggacg tagtaataca aacacataca 300

atgcgaaccg cggattaagt tacggaacta gtacaggcgg atcaggttga gataatataa 360

aagtacgtgc actaaacgcc atagcaagag acgctaatac gcctagaatt acgaacggcg 420

ctagaacta 429

<210> 38971
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A6

<400> 38971

cttggctctg gacctttggg ctgatttatg tgcttgttta tgtgcttggg tgattgatgc 60

cgtcgccatc tttgtgttgc cggcggacgt ggtttgagag gtgtttgttg atgttttggt 120

ggtgttcgtc gttgatgtga agttcgttaa ggttaacaag gttattgcgt tcaagaagtg 180

tgttagtttg atttatttgt tgcatgttga gacggctctg gaggtgacta tgctgtctaa 240

ggagaggatg gggcttagta gtcatgtgac cgttaagcct gcggaggata agtataaggt 300

taagtctacg tttaatcctt gtaagtcctc gaatgcctag tctaagaagt ctgctgttgg 360

tcgtaagtcg attaaggcgc agaatctgca taagtcgctg catgttattc agttgaactt 420

taagtt 426

<210> 38972
<211> 435

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-A7

<400> 38972

tggctctgga actttgggct gatttatgtg cttgtggatg tgcgggtggc cgtcccgtcg 60

aacggtcgac ttgacttggc caattctctg ttagtaggcg tgcttggaat gttctttctg 120

gtgctagtcg tctgtaatgt gtctctgtta ctgggtcgtc ggattgtcgt ggtgatgtga 180

attgcgatga ggttgtttcg ttgtattttg ttgatgttag aggtctgtgg tgtttctctg 240

ttgtaattgg gtcgttgtat tgtcgtggtg aggtgaattg ggatgaggtt gtttcattgg 300

ttttcgtggt cgtggtggtg ttgttgtctt gtggggatag gcgtattcgt cttagcgttt 360

ggagtcggag tcttgatggg cagctttgga tgtatatgac ttggngtttt gtgtttgcgg 420

cttatccgaa tgata 435

<210> 38973
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A8

<400> 38973

gaacctttgg gctgatttat gtgcttgggc gtcttcacat agtgacgcag ccccatactt 60

aactattacg ccaccatgag gggccgggga aaattcacct aaaatctacc catttcccac 120

cccaaaacta aagtatattc tataccattc cccgtattac cgggagccac gaagtaccgg 180

ttcgctcaac cctacgtgaa agggttcata gtcgagccgg tcatgcggca cgagcagtat 240

cttccaggct tcgaacccag tctcgtacgg gagtaaaccc gagcacgact tcaaaatact 300

tgtctgctcg ctttatgtta aagtataagc tcaacgtctg gtttcgactg cggacggcta 360

gtgacgtacg ggcctgcggt ggccctcaga tccgtgcgat gctcctccag cataacgcct 420

aaggtacgct cgatcccccc 440

<210> 38974
<211> 60
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A9

<400> 38974

tcgcggacgc gtgggcggac gcgtgggcag ttttagagac ctgtggacct gtactggtat 60

<210> 38975
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-B1

<400> 38975

tttgggctga tttatgtgct tgacatataa gtataagtgt atctcagtaa cggtcctcga 60

ggccgcttgt ttcagtgatg ttgagtcatc aaaggtataa gttgatacac ggtggtctag 120

ttctcttcat tctatgtttt cgctatcgag gcgtgttgcg gagtccggta cttttatggt 180

gactcattgt tacggtgggg tcgttctagt tgtcgagtcg gctatggtgt cgctctcttt 240

tcttatcaag tcgttgcctt cttgttgttc gtcgtggtct tctgttgtgc tgggtgcgcc 300

tattgctgat aagtagagta tggaggagga gtggcattgt actagttttg cgcttcattc 360

ttcggcggat ggtactttct atgaggatta tacgaattat attgnctcgg cgt 413

<210> 38976
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-B10

<400> 38976

caagattata gaatgacata ttgtcttgtt catccatcaa ggaagatgct cttgatgcct 60

gtcgagcctt ttgaacctag taaatcatgc tacgtctgct ctgagacccc acttgttctg 120

gaggttaata ctaagacaac aaagctccgg gaagtcattg aaaaagttat aaaaagcaaa 180

cttggaatga acctcccttt gataatggtt ggtgccacgc tagtttttga ggatggtgag 240

gatttggaag aggatgagat tgcaaattat gctttaaacc tcgaaaaggt cttggctgaa 300

cttccagctc cagttctaaa tggtacaaca cttacagtcg aggattttca tcangaacta 360

aaatgcagta ttaacatcaa acacagggac gagtttgatt aagaaaagga gcctgacgga 420

aatgttcttg gctggtggtc tg 442

<210> 38977
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B11

<400> 38977

aattggtcct aaaatgacct attttactat tttaaattct gaattttaag tataagactg 60

tgttttatat atcaattcag ttctaacatg tgttagtgcg tctaaactca atatttagac 120

tgcaaattgt actatgcatt gtacatactt gtctgattgt aaaatgaaaa ttgcagactc 180

gtttatgaaa cagcttccgc atctagctgt ggaaaattac tgctgtgata tgccatatcc 240

tgacttgagc ttttctgagg tcacgtctgc cgttgtacat gataacctgt agcctcacat 300

accacgctgg tgcccgagct 320

<210> 38978
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-B12

<400> 38978

aactccgctg ggccaccagc tttgaccgtt tcctcccttc ccctccgcta ctgctcctcg 60

gcaccccact cccccgcagg agcggcggcg gcggcggcga ggtcgtaccc cacatcggcg 120

agcggcggcg gcaccgccgg aggcaaaggc aagatgttcg ggcgcgcgcc gaagaagagc 180

gacaacacca agtactacga gatcctcggg gtgcccaagt cggcgtccca ggacgatctc 240

aagaaggcct accgcaaggc tgctatcaag aaccaccccg acaagggcgg tgaccccgag 300

aagttcaagg agctcgcaca agcctatgaa gttttgagtg atccagagaa acgtgagatn 360

tatgatcagt atggtgaaga tgcccttaag gaaggaatgg gccggtggag gacccatgtt 420

gatccatttg acatcttctc atca 444

<210> 38979
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H6

<400> 38979

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaagaaa 60

ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa ataaaaaaaa aataaaaaaa 180

aaacaaaaat ttataaaact taaaatatta aaaaa 215

<210> 38980
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G10

<400> 38980

gagcgtgtgg acagtggtgg ccgcgctgtg cctgctcgtg ttgcctacat gtcccgggcg 60

gttgaggcgc tgcttcagcc tgcacccctc ccttgtctca tagatgctcc ttttgacctt 120

ttcaaataaa tatggatggc gagctcctag gcctctggct tcctggtaga gggcggcatg 180

ccgaagggtc tgctgggtgt ggattggatg ctggggtgtg ggggttggaa gctgtctgtg 240

gcccacttgg gcacccacgc ttctgtccac ttctggttgc caggagacag caagcaaagc 300

cagcaggaca tgaagttgct attaaatgga cttcgtgatt tttgttttgc actaaagttt 360

ctgtgattta acaataaaat tctgttagcc ag 392

<210> 38981
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G11

<400> 38981

ggaagtacac atcccaatca cccgtgtcag gattcactct caggagctgg gtggcaggaa 60

agtcaatagc ccctgtggca attgcaggac cagctggagc agggttgcgg tgtctccacg 120

gtgctctcgc cctgcccatg gccaccccag actctgatct ccaggaaccc catagcccct 180

ctccacctca ccccatgttg atgcccaagg tcactcttgc tacccgctgg gcccccaaac 240

ccccactgcc tctcttactt acccccatcc atcacctggt tttgactaat gctgcttccc 300

tctctgggcc tggctgccag gatcttgtgt ccctaagtcc ctctctttaa agaacttctg 360

cgggtcagac tctg 374

<210> 38982
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G12

<400> 38982

catcctactt gtccagaagg taaatttaca cagccagaaa gaaaaggcat cggctgagct 60

gtcagatcag gacaggctgt ggatctgtgg cggtactctg aaagctggag ctgcagcaca 120

ccccttttgt attgctcacc ctcggtaaag agagagaggg ctgggaggaa aagtagttca 180

tctaggaaac tgtcctggga accaaacttc tgatttcttt tgcaaccctc tgcattccat 240

ctctatgagc caccattgga ttacacaatg acatggagaa tgggaccccg tttcactatg 300

ctgctggcca tgtggctagt gtgtggatca gaaccccacc cccatgccac tattataggc 360

agccacggag gacggacagt gcctttggtt tttccg 396

<210> 38983
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G2

<400> 38983

cccacgcgtc cggacccacg cgtccggcac atgttccagg acttaaggtt ctcacaccag 60

actcttcaga agatgcccga ggcttgctta aagctgctat tagagatcct gatcctgtta 120

ttttcttgga aaatgaattg ctttatggag aatctttccc agtttctgct gaagtgcttg 180

attctagttt ttgcctaccg attggcaaag ctaagataga acgtgggggt aaagatgtta 240

ccattactgc attctccaag atggttggct atgctctcca ggctgcagag atactgtcca 300

aggaaggaat cagtgctgag gtgatcaacc ttcgatcgat cagaccactt gatagagctg 360

ctattaatgc atctgtcagg aaaaccaacc gattggtgac ttgtgaaaaa gggttcctca 420

acatggga 428

<210> 38984
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G3

<400> 38984

cggacgcgtg ggctcagaac gagataagat tcagcgtgat ggcgatcttg aagaaccggg 60

aggagatgtt cacggtggag atcaaagaac tccagaggaa gagggagggc ctcttgcagc 120

agatgggcga tcccaacgca agcaggcatg ttgagcagtc actcgcggag gtggcagctc 180

agatcgagtc tgtgacagag aagatcataa tggaggagga gaaggtgaag aagtggaaag 240

cggagaacct gaggaggaag cataactacg tgcccttcct gttcaatttc ctcaagattc 300

tcgaggagaa gcagcagctg aagcccctga tag 333

<210> 38985
<211> 337
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-G4

<400> 38985

tttgtttctg cccccagatc aacccagact ctgcaaaagg ctataaaact cgtggaatgg 60

catatgccat gcttggcaaa tgggaggaag ctgctcatga tctgcacaca gcatctaaca 120

tggattacga cgaggagatc aatgctgtgc tcaagaaggt ggagcctaat gctcacaaga 180

tagtggaaca tcgcaggaag tatgagaggt tgagaaaaga gagggaggaa aagagagcgc 240

agcgtgatcg gcttcgtcaa cgtgcagagg cgcaggctgc ttacgacaag gccaagagga 300

aggagcaatc gtcaagtcgc tcatcangag gtgcatc 337

<210> 38986
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G5

<400> 38986

cccacgcgtc cgcccacgcg tccgtccacg tgtccgggag actcttagga cagatgttga 60

gatcattctt taaacaatgc cttgaggaaa gcgtgattta tcgaaattgt tcccgcaagc 120

aagagagtga atttgttttg agggcttaag gttgtgttgt gcgtgttgga ttggattgat 180

taaaattcgt agtttcgtac agttttgtca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaacagaaac ggaaaaagaa atacaa 266

<210> 38987
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G6

<400> 38987

gcgaccgctc cttcgaatac atattatttg atttatccta gcggcgatct gagtagcgcg 60

cgggatgaat ttgtacagtg tttggtaaac tatgagtgga agggagcggc tgtgaattct 120

gcgaaagctg acgagctggt tttgggcttg acgaatcatg acctattcct gtactttggg 180

catggaagtg gaacccagtg tatttctagt aaggaagtcg agtagataga taactgcgca 240

gctgctcttc ttatgggatg tatcagtggc acacttcatt gcacacgaag ttatgctcct 300

cgaggggccc cattatcata tttataggct ggttcccctg ctatcattgc gaatctctgg 360

gatgtttcag acaacgacat tgacacgctt agtaaggctt ttctcaattg atggctgcat 420

gacaaatctc tagatggcaa caattgttca aaatg 455

<210> 38988
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G7

<400> 38988

cccacgcgtc cgcccacgcg tccgttagca ctggcgctga tgtcgatgga cgaggcgctg 60

ggtgcatctg ccgctgacgc ggtggtgaca ttgctgtggg tgctgcgcgt ctccacgctg 120

ggggcctcga cgacggcggt gacgttctac ctgaagctgc agggcgtgca cttctcactc 180

ctggtcacag actgcctaat atccatgctg ctgttcaagt tcaatatact ttgagacgca 240

atcctgggag ctagcttaaa cc 262

<210> 38989
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-G8

<400> 38989

cccacgcgtc cgctagaatt cataaagcat cagatgaaaa ggctggacat cagcgttttg 60

acgaacctga cgaattggtg ccagagcgtg gatctgaaga tgtttcattt ggatatgatc 120

cagcaatgga ttatgatagc cacatgcaga ctactgtgaa ggtggaagat gaaaaaacag 180

aggatgactt gccagttgct gacaatgatg tacagaaggt agagaaagag aagctaagga 240

atgcaaagga tggttcagat aaacgaagga nagatgcctt attgaggagg ttatcggcgc 300

caaggacccc actgaatgat gcacanaaac gtgcacagaa cctgcgtgca tataaggcag 360

accttcagaa actgaagaaa gaacaggaag aagagcaaat aaagcgattg gagaggctca 420

aattggagcg gcaaaagagg atcgccgcan gaggtaatgg 460

<210> 38990
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G9

<400> 38990

gggaccgcga gcacaggccg ctccgtgggc gcttcggatc ctcgcgggac cccacgctct 60

gccagcctgc ccagcccgct gcagccgcca gcgcgccccg tcggcagctc tccatctgca 120

cgtctctccg tgaaccccgt gagcggtgtg cagccaccat gttcagctgg ctgaagcggg 180

gcggggcacg gggccagcag cccgaggcca tccgcacggt gacctcggcc ctcaaggagc 240

tgtaccgcac gaagctgctg ccgctggagg agcactaccg ctttggggcc ttccactcgc 300

cggccctgga ggacgcagac ttcgacggca agcccatggt gctggtggcc ggccagtaca 360

gcacgggcaa gaccagcttc atccagtacc tgctggagca ggaggtgccc ggctcccgcg 420

tggggcctga gccc 434

<210> 38991
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H1

<400> 38991

cccacgcgtc cgcggactcg tgggcggact tgtgggctgg tatggtagtc acctttgggg 60

caactgttct gactaccgag gggaagtctg ttgagatgca ccacgaggca cttcatgagg 120

ctctttcggg tgacaatgtt ggcttcaacg tgaagaatgt tgctgtcaag gatctcaagc 180

gtgggtttgt ggcctccaac tccaaggatg accctgccaa ggaagctgcc agcttcacct 240

cccaggtcat catcatgaac caccctgggc agattggcaa cggctatgcc ccagtgcttg 300

actgccacac cttccacatc gctgtcaaag ttgctgagct catta 345

<210> 38992
<211> 129
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H10

<400> 38992

cacacataaa caccatacac cggcaagttt taaacacatt tgccctcaca ctccctactc 60

actcaacaca ttacatcaac ccctcatcac aaactcatct tacttcaacc tcatatacta 120

tctttctcc 129

<210> 38993
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H11

<400> 38993

gtgcgatcgg cggcgggagg ttccctggga accaggtggt cgaagggctg agctgggtgg 60

gcagacaaga ggtccctgcc ctcccccagt gagccctgct gttcccgtgg gagccatgaa 120

gctgaacgag aggagtgtag cccactatgc actcagcgac tccccagcgg accacatggg 180

cttcctgcgc acctgggggg gcccagggac cccaccgacc cccagtggca ctggccgaag 240

atgctggttt gtcctcaagg gcaacctgct attctccttt gagagtcgcg agggccgggc 300

cccactgagc ctggtggtgc tggaaggctg cacagtggaa cttgccctaa gctcccgtgc 360

cccaagagtt tgcctttgcc atctgctttg atgcccctgg agtgcgccca cacct 415

<210> 38994
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H12

<400> 38994

cttcctcagg cggtggctgg aggcttcgca tctggggctt taaacataca aaggtgttgg 60

ggggacctgc ggcggcggcg gcggcagcgg gggctggggc gcgggggccg gaccatgagc 120

cgctgagccg ggcaaaccct aggccaccga gccagcggac cctcggagcg cagccctgcg 180

ccgcggagca ggctccaacc aggcggcgag gcggccacac gcaccgagcc agcgaccccc 240

gggcgacgcg cggcgccagg gagcgctacg atggaggcgc taatggcccg aggcgcgctc 300

acgggtcccc tgagggcgct ctgtctgctg ggctgcctgc tgagccacgc cgtc 354

<210> 38995
<211> 462
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-H2

<400> 38995

gggatatact ggtctgtctt ttacaaagca tattccagta cgtccttaca gacataatga 60

gtatgagaga ttcataacat cagcgtaccc atactacacc gnctcatttt caacaatggg 120

tgctttcttc gtattctcgt ttgtgtacct gtaccacaaa taaaggactc atgggagcgc 180

acaagtctct ggaggctgac gtgaccaaga tctgtgggca ctgaatgttg tgctataagc 240

caagagttac ccggcgccaa ttttatggaa ccatgttttt gtactgccaa cttagataac 300

atttgacgac cgtgaccgca ctcatgggaa atttactcgt gctaggatgt tcgatctggc 360

cccacttcnt ttttntcttg gacccttttct gatcagcact tgtcagaaac gttacagtct 420

atagcactga nacgtgattt tggaagtact acacccccag ta 462

<210> 38996
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H3

<400> 38996

gccgacggct cgactccact agtcgctggt accctctgca acaaagccgc ctccacctga 60

gcacctattg agctcttccc cttcctcgtg ggttgtgcga gccctctacc ggcgcgcagt 120

acaggggctg attgggtgat caaacccgca agatttggtt ttgtgatttg ggagcaggag 180

gcggtggcaa tatgccttgc ccactccgtt ttttgttgag ctggatggta gcttggcgtt 240

cctaattttg gacctctggc ttaaaagcga aaaaaatacc cctgcaggaa tataaggcga 300

gatctactgg aacttcagga acttcgtcta aaagtttccg tgatctgtac aatatgaagt 360

actcgagcta cttaaac 377

<210> 38997
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G1

<400> 38997

ggacgacacg cccatccggg tgtacgagaa cgccacgctg caccaaggcc acggccacgg 60

gcaccaccgg cacggcggcg cggcggcgga ggccaacggc accaacacca ccaccaccac 120

gctggctgct gccccggcgc cgttccccgg gccgcagccg atggccgtgt acagctccat 180

ctggaacgcg gacgactggg cgacgcaggg cgggcgcgtg aagacggact ggtcgcacgc 240

gccgttcgag gccacgttcc gggaggtgcg cgtggacggg tgcgcctggg cgggcaacgc 300

cacggacggc gacgccgcgg aggcgcgccg gtgcagcgag tcctcgtggg gc 352

<210> 38998
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E2

<400> 38998

aacagacttc actggtggtg tggagacaat tgagtactgt gtttgtttgc atgaggagga 60

tcatgggatc ctttggaaac ggcaagactg gagaactggt ttagcagaag taaggcggtc 120

aaggaggctc actgtgtcat ttatctgtac agttgcaaac tatgagtatg gtttttactg 180

gcacttctat caggatggga aaatagaggc agaagtaaag cttactggaa ttctcagttt 240

aggggccttg atgcctgcgg aatcgaggaa atatggcaca actattgccc ctggtctgta 300

tgcaccagtt catcagcatt actttgttgc ccgtatggac atggctagtg attgcaaacc 360

taatgaagct cataaccagg tggttgacgt taatgttaaa gtggaaagtg catgcacaca 420

taatgtgcat aataatgctt tcta 444

<210> 38999
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E3

<400> 38999

cggacgcgtg ggctctgaag gagatagatt gggtcaagac gacacaggag cactgtccca 60

gcctgcagta ctactatctc ggttattata tacattcttg caataagatg agatacaaag 120

ctgcatatcg accatcagaa cttctatgtc cactccgtta tgagtgggtt cgctatgatt 180

tagccaagcc tctactggat gccagtcaat actccgttct atctgattat gctacaatgc 240

aaggtgaagt gccccagcct cagatttgtg gtccctctga tgactcttca gcaaaagttg 300

accaccatga gtctcccagc gatgaggatg aggacgacga cgatgaagat ttcgacaact 360

atgaatcaga ta 372

<210> 39000
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E4

<400> 39000

tgtgtcgttg cggaggcagg aagagagacg acggcggcca tggcgacctc cttccagggg 60

acgacgacca agtgcaccgc ctgcgacaag acggtgtacc ttgtggacaa gctcaccgcc 120

gacaaccgca tctaccacaa ggcctgcttc cgctgccacc actgcaaggg caccctcaag 180

ctcgccaact acaactcctt cgagggagtg ctctactgca ggcctcactt cgaccagctg 240

ttcaagagga cagggagctt ggacaagagc ttcgaaggaa ctcccaaggt tgtcaagcca 300

gaaagaaacg ttgggaatga gaatgctact aaagtctcaa gcgcctttgc tggcaccaga 360

gagaaatgtg ttggatgcag caagacagtc tatccaactg agagggtcac tgttaataac 420

actatgtacc acaagagctg tttcaagtgc t 451

<210> 39001
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E5

<400> 39001

cccacgcgtc cgttttttt ttttttttt ttttttttt ttttttttt tttttgattg 60

gttttttttt attttttttt aatttatttt tttttcttaa tattatattt aaaatttatt 120

atttactatt aaaaaatcaa aaaaaaataa ttaaaagtca atccaatctt at 172

<210> 39002
<211> 79
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E6

<400> 39002

gaataacccg gaccgaccca ctcgtccgcc cacgcatacg tacatttatt attttctttt 60

ttaccctatc ttctttttta 79

<210> 39003
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E7

<400> 39003

cccacgcgtc cgcggactcg tgggcggact cttggggtga tccggaacct ccctgagaag 60

tgcccttact agacaacact gccttatcct gcaccctatc tggagcttct cctggcattt 120

atatggtgtc ttatggtttc ttgtctgtcg ctgacaacgt tggcgcttaa gatatttgga 180

ataggactac accttccata gtttacgttg aactctgtgg tgctgaagca gctgttgcca 240

ttatggcgga aattgctgac gcctgattga acatgtacag tttttattca gttaaacaac 300

tgggcaaaaa agttagatgc tcatattcat cacacaaaat tgtacttgtc aggttattta 360

tatacgttac ctgaatacta tctatcactc taatatatta atcactc 407

<210> 39004
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E9

<400> 39004

agccgcgcca gggagctcgc ggcgctcggc ccctgtcctc cggcccgaga tgaatgctgc 60

ggcagaagcc gagttcaaca tcgctcctgg ccaccgactc ctacaaggtt actcactata 120

aacaatatcc acccaacaca agcaaagttt attcctactt tgaatgccgt gaaaagaaga 180

cagaaaactc caaattaagg aaggtgaaat atgaggaaac agtattttat gggttgcagt 240

acattcttaa taagtactta aaaggtaaag tagtaaccaa agagaaaatc caggaagcca 300

aagatgtcta caaagaacat ttccaagatg atgtctttaa tgaaaaggga tggaactaca 360

ttcttgagaa gtatgatggg catcttccaa tagaaataaa agctgttcct gagggctttg 420

tcattcccag aggaaatgtt ctct 444

<210> 39005
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F1

<400> 39005

cccacgcgtc cgatctcaaa cctgtgcgtc tgcccctttc cagctttcct ctcaaacgga 60

gagatgtact cggatcagat ctccaccggg cgcaagcgct ccatccatga ccgccttgac 120

ggcgacctcc ctgccggcac gggcgccggc ggccgtgtcc gtcacacggt gtccaagagg 180

caacgacaga tagatgaaaa atggaagcat gatctgtatc gggaagatga tgaaccagct 240

tcaaaatcaa cagatccgaa ggatttgcga ttgaagcttc agaggcgaag ttttcaacaa 300

gattttacca gcacaagaag ttctggtgtg cgtgatctac gtgagaagct atctggtata 360

atgaaccca 369

<210> 39006
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F11

<400> 39006

tattaagcaa aatgtaaagc actttttttt atagctatgg ttataaacag gttttagatt 60

gttcaaatta cttgtccact gaatgtcact tgaccttgat aagaggccgc ctgcacacag 120

agcccagtta attctccgca cctcggttgt gtgcttccga atgggctcac tcccgtggtg 180

gtgtttgaga gccaacaaca ctacctcata gaccggtctt tgggaaactt tgggtctcac 240

tgttgcctgg cttgagcact ttggtttat 269

<210> 39007
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F12

<400> 39007

cgcttaagta caattcaatg cactccttct tatctccact catataaact agtaagggat 60

ggttctaata cccttcccgc ctgttgaaaa accacctcaa ttaccctctt acaccaaacg 120

aaacaccatt catcctccaa actctaagca tttctacaaa cacaaacttt tatttaactg 180

cttgtgatag actaatcgaa ctctacggtt tcacgtccct ttacaataac acgtacacca 240

aatcctctct ccttacccat caatctttct agaacatgca ttgcaacaca aatgctgctc 300

tcgactacta tgtttcagtc aacaactact cctatgtctt cacattct 348

<210> 39008
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F2

<400> 39008

gacccacgcg tacgcccagg cgtacgacca ctcatcttcc cactttacct tcaacacctc 60

tgctctcaat acacgacatg taccacacac catagctact gcccacgcta accatgcatc 120

caacaccagc cagactccca cttaaataac acctcactct taaaaatatc gacccactcg 180

acaatcacaa gaacgctttg acataccaac ttctggacct acgagcaaca aatattttta 240

ctcggactat accacctcag attccactta caccctgcat cttctaacca aatctttctt 300

gaacgatacc cttcactact tgatcaacaa atttgcct 338

<210> 39009
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F3

<400> 39009

ttattccatg acgtacccat acagccacac ccctacagca cctacatcaa acgatcgatt 60

ctaccacacc tctttcaaaa cgctcctaca aatacatcaa acatggacat atgaactata 120

tactcaacat cataaaccag atttactatc tacacatgcg acatacatta tactgacgca 180

ttatatacaa atttatcatc cacactctat cga 213

<210> 39010

<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F4

<400> 39010

tcgtccacgc gttcgcccac gcgtccgccc acgcgtccgc ggacgcgtgg gggcggctgt 60

tcgcggggga gccgacgccg gcgctgctgc gcacgctcgc cgcgctgcag gcgctgtccg 120

tgggcccgct ggtggacgcg gccactgcgg cgctgcggtc gccggcggtg gccggcagcg 180

cgctgggccg ggccgccgcc agggccacgg cgtaccggca cttctgcgcg ggcgagaccg 240

ccggcgaggc cgcggcggcc gtgcgccggc tgtggcgcgg cggcatgggc gggatcctcg 300

actacgggat cgaggacgcc gaggacggcg gcgcgtgcga ccgcaacg 348

<210> 39011
<211> 182
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F5

<400> 39011

gtcgccctca agggcgactc gggggcgact cgctcgcacc gccgccgcca acccggaaag 60

cagtacagcc cggccgccgc cgcctctcct ccggctaccg gcggtggcag ccagcggcgg 120

cgccccaaaa agggcctgcc ccgcaccccc tcctctcctc cctctctctc ccacccaccc 180

ct 182

<210> 39012
<211> 324
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-F6

<400> 39012

gtgaactctc cttttcttcg gacaccattg acaaattttg cgggtacaat tcaagtgatg 60

gccaacagac tatgcatcag gtcaatggaa agcagggttg ggaggaaagg gagattgtcg 120

atgaaaggaa gcctacctct taaaaatagc gagccatctg ccaatgacaa gattgatttg 180

aaatgtgaag ttctggacat acgagcaaaa aatattttga gtggccaagt agacagccag 240

ctacaagtta caggctcaat tttgcgacca gatctttctg gaatgatccg gttgagtcat 300

ggtgaagcat atntgcctca tgat 324

<210> 39013
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F7

<400> 39013

gcaggccacc tgcaactgcc tcaagagcat gacgggccgg ctcggcggcg gcgtcagcat 60

ggccaacgcc gccaacatcc ccggcaagtg cggcgtctcc gtcggcgtgc ccatcagccc 120

caccgtcgac tgcaccaaga tcaactgatc gatggaacca tagtggaggt agctcgctcg 180

ttggatggca gcgtacgtgg ccatcagcag catgcagtcg tcgtcgtagc agagatgtcc 240

tagctacgtg tgtgtcatgc atcagactgg cacataataa agaagtagat catgcaccca 300

ctagtgatca cttcgtctag tgtccctccg ttcaatgtcg tcgtcgtcgt cgtgtacctt 360

acgtgacatg ctgtagcacg tacgctagca gagcagcacc tcaatgtcct tgggtttgct 420

ttgctggctc tctggtttcg tct 443

<210> 39014
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E12

<400> 39014

aaatactcca tcagcagtga caactctgac accactgaca gtcatgcgac atctacagcc 60

ggatcaagat gctccaaact gcccagcagc accaagtcgg gctggccccg acagaacgaa 120

aagaagccct ccgaggtttt ccggacagac ttgatcacag ccatgaagat cccggactca 180

taccagctca gcccggatga ctactacatc ctggcagacc catggcgaca ggaatgggag 240

aaaggtgtgc aggtgccttg ccgggcagag gccatcccag agcccgtggt gaggatcctc 300

ccaccactgg aaggcccccc tgcccaggca tccccgagca gcaccatgct tggtgagggc 360

tcccagcctg attggccagg gggcagccgc tatgactggg acgagattga tgcctactgg 420

ctggagctca tcaactcgga gcttaaggag atgg 454

<210> 39015
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F8

<400> 39015

gcaccctgct gcagatgcac acacagacac ttacagctag caatgccggg ggcaggcagg 60

ggcccgtacg tacgtgtctc tttctctctc tcatcttgtc accgtaccta tctagagtgt 120

gtgtgttcgt actaattaaa atgttcttgt cgtcgtcgtc tgtgcatgca tgtaccatgt 180

cgtcgtgcat gtctattatg tgtgtgtcgt cgtgtcgatc ggtacgtata gatgcctgtt 240

gttagcatgt gtgtcattac ctagtcgtgt gtagtgtatg tatgtgcttg ccgggcaaaa 300

gttgcatcta gctaaacagt agtattactt tttaaaa 337

<210> 39016
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F9

<400> 39016

cccacgccta ccaaaaaaaa aaacttttat atcaaataat aaaaaaacaa aataaacgaa 60

aggttaaaat aaacaaaata ctaaccaaca aaaaaaaaaa caaaccacct caccacttaa 120

caaaaataaa cccatctagg atctccatgc agacttgatc tcaatcacat agatcccttа 180

cttataccaa ctcattacaa caaactcctt 210

<210> 39017
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-C9

<400> 39017

gacagggatg agctcacccc acaaggtttt cctgagcccc ggaggcgggg ccacgcgctg 60

ggaagccctc tcaggaaacg ccgccaggac aggaagcaga ttggaggaga aaaaccgcaa 120

tcttcattcg cggaaaatcc aggtgcttat gggagcattt tcacagaata actagaataa 180

cgaggtattt gggtttttta agcaccgggg tgttaagtct tccttcaaga atcacctatt 240

gctgaaaggt tgttttattc ggcggaagtt tcaacatgtc agagcagcct gccccgtccg 300

ggacaggttt caccgtcggg agacaacatg cctgtccttc gnnctcccag ccacaacgtg 360

tccttctgtg cacgtttcag ctgaaacctt gcatttagtt ttctaactca gagggtttgt 420

caatctttta cctgcgaact cctg 444

<210> 39018
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D1

<400> 39018

cacgtgcata atccatattg gattccccaa cttatttaag aaaaagggag caatcgaaga 60

agtagagaaa gatctccaaa aggaagttaa ttctgtaaac cagagactta atattgctat 120

cgaaaaggtt aaagaacctt atagacaacc taatattctt gcggaatata tagctttcca 180

attaaaaaat agagtttcat tccgaaaagc aatgaaaaaa gctattgaat taactaaaaa 240

agcggatata aagggaataa aaatccaaat tgcgggtcgt ctagcaggaa aaagaaattg 300

cacgtgccga atgcatcata aagggtagac tacccctcca aacaattcgc gctaaaattg 360

attattgctg ctatccaatt cgaactatc 389

<210> 39019
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D10

<400> 39019

cccactctta caccaaatat caactttaaa ctcccatttt attcacaacc ccatccacct 60

acacatccgg caagttctta cccaccaccc gcccgcccaa caacaccacc acccctacaa 120

ccacccacac cctattcaaa aacacaacat aaccaaaacc aatctaccac caattttcca 180

ccacaaacta ccatcacccc tccataccaa atccccaaca cttacctatc caaccctaat 240

actacaaact caaacataca ctaaatttac cacactcact caaccaaatc acccacacac 300

ttcacaacaa cctccatacc a 321

<210> 39020
<211> 372
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-D11

<400> 39020

cgcccgcgag gggccggggt cggggtcgcc tgggccatgc gcgcgggctg ggcaggggggc 60

gtgcggtgcg cagagcggag cggcctcgga gcctgagccg cccggggccg gggccgggga 120

gccgcgcggg gccggccggc cgggggggagg ggagcgatgc ggcgccggcg ggcggcagtg 180

gccgcgggtt tctgcgccta cttcctgctg ggctccgtac tcaacgtgct cttcgctccg 240

ggctcggagc ctncgaggcc aggccagtcc cctgagcctt cgccggcccc gggtccgggc 300

cgtcgcggag gccgagggga gctggcccgg cagatccggg cgcgctacga tgaagtgcag 360

cgctattccc gc 372

<210> 39021
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D12

<400> 39021

gtgtgaaggc gtctcaaaca ggctttgtgg tcctggtgct gctccagtgc tgctctggat 60

gcaaactggt ctgctactac accagctggt cccagtaccg ggaaggcgat gggagctgct 120

tcccagatgc ccttgaccgc ttcctctgta cccacatcat ctacagcttt gccaatataa 180

gcaacgatca catcgacacc tgggagtgga atgatgtgac gctctacggc atgctcaaca 240

cactcaagaa caggaacccc aacctgaaga ctctcttgtc tgtcggagga tggaactttg 300

ggtctcaaag attttccaag atagcctcca acacccagag tcgccggact tt 352

<210> 39022
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D2

<400> 39022

gctcgatcca tctcactctc cgctggtcgc tcactcttgc agctccaccc ttcactcagt 60

cttagtctct tattagctct aggctctagc tagccgcgcc actccttcgt gtagccatca 120

gccttctcat cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc 180

gaggaagcgc ccgtggtgga gaccccgccg ccggccgtcg tgcccgagga gtctgccccc 240

gccgaggccg aggccgaggc cgaggctgct gctcctgctg atcccgagga gcttcccgcg 300

gccgagcagc atgcagccgc cgaggcggag gccgcggctc ctgctggtgc cgaggagccc 360

gtcgcggccg aaccggccgc cgaggcggag gctgctgctc ctgctggtcc cgaggagact 420

cctgcggtcg 430

<210> 39023
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D3

<400> 39023

gccggatcta taaccctagg tgcagcggcc tagattgccc ccaagcgctc ggctccacct 60

gcggcgactg acctcccggg tgcctcctac gaggagaccg actatggttc gggctcctac 120

gaggaggagg aggacgatga ggacgacgat gatttgtaga ccgatctctc accgtctacc 180

gaagatatcg agagcgatgc t 201

<210> 39024
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D4

<400> 39024

gccacgcgtc cggtaccata tgtatctgct gttcaactct tcaatcaacc taaaagaacg 60

agtggtggaa gcattgataa ggaatcaatc cataaggacg tgacatgtga aacatcttca 120

cagctgaacc tgcccccaat attcgcaaga gctttttcca aaacaatatg ttccagtaaa 180

taaaccatct actctgcgta ctgaagatga tcaacagtca gcagatgggg aactggtatt 240

cgaatttttt gaatatgaac agccatactc acggcgacaa ttatttgaca aggtaaatga 300

cctgattgcc ggagccaaac cgtcaaactg ccaaatatat ggcgacccaa acaatctgga 360

ggccagcctg catgatctcc atccagcgtc ttggtattgc gttgcatggt atcccatata 420

ccggatacct ga 432

<210> 39025
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D5

<400> 39025

gcgccgccgt cgccccatcc ggcatggctt cgaagaagga taaggccccg cccccgtcgt 60

cgaagcccgc caagtccggc ggtggcaagc agaagaagaa gaagtggagc aagggaaagc 120

taaaggagaa ggtgaacaac gcggtgctgt tcgaccaggc tacctacgac aagctgctct 180

ctgaggtgcc caagtacaag cagatcaccc cctccatcct atccgagcgc ctcaggatca 240

atggctccct ggctcggagg gctatcaagg acctgatggc gcgtggcctc atccggttgg 300

tctcggttca ctcaagccag cagatctaca ccagggcaac aaatacctaa ggatgggatt 360

<210> 39026
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-D6

<400> 39026

gctcgagcga tcccactccc gatcagcagc tgatcgctca ctcttgcagc tcgatcgttg 60

tttagctgct ctagctctag cctctagccc tagctagtag ctagccactc ggtcgtgtag 120

tcatcagcct tctgatcgtc acccatggcc actgccgagg tccagacccc gaccgtcgtg 180

gcgaccgagg aagcgccggt ggtggagacc ccggctccgc ccgccgtcgt gcccgaggag 240

gctgcccccg ccgccgaggc caaggtggag gagccagctg ccccggcgga gaccgagcca 300

gctgccgncg ctgagcccga ggcggccccc gtggcggcgg aagaagagac gccaaaggag 360

gaagagacgg caaaggaggc ggagccggag ccggagccgg cggcggctga agaggtgaag 420

gaagaagcgg cagcgcccgc tgccgagaca gaagcagaac c 461

<210> 39027
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-D7

<400> 39027

gctccgcgag cccgtcctcc gcggctcggc tgcggcgatc gtcgaccacg cgtactactg 60

gccgcacttc acgcacatcc cggcgccggc cgacgaggac atcatgatgt tcaccgtctc 120

caagccatcc ggacatgccg gaagcagatt cggatgggcg ctgatcaggg acgacgaggt 180

ggccaggcgg gctttagagt acctgaggga cagcaacatg ggcgcgtcgc gggacaccca 240

gctgcggatg ctggggatcg tcaagttcat gctggccaac ctgcgcggca aggacgacat 300

cttcgccttc ggccacgacg tgatgaggag cangtggctc aagctgagcg cccgcgtgtc 360

gcggacccgc cgcatcacgc tgcagaagat cngcgcccag tact 404

<210> 39028
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D8

<400> 39028

acgccttgga gccggtggcg ctcgctgccc tgagagatgg caaggtcgtc ccggggttcg 60

gaccggtgta cgccattggc ccactcatgt cgcagcaaca ctcagttgac gaaggtggga 120

aggaagaagg atcgggctcc cccgttgcct ggcttgacga gcagccagcg cggtctgtgg 180

tgtacgtcgc gttcggcaac cgctgcgccg tgagccatga ccagatcagg gagatcgccg 240

ccgggctgga ggcgagcaac tgtcggttcc tttgggtgct caagaccaca acggtggata 300

gggacgacag cgccgtgctg acggaattgc tcggcgaggg gttcctggag cgagtgcagg 360

gtcgcggcct cgtgaccaag gcgtgggtgg accaggaggc cctgctgaag cacccggcca 420

tggggctgtt tctaagccac agcgggtgga actcgg 456

<210> 39029
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D9

<400> 39029

ggagagatga aggatggagt cccagaggga gcacaacttc agggaccggt tcatcgaaat 60

gcaacttacc gcccaaggta ccgtagcagg ggacctcctc gcccacgacc tgccccagca 120

gttggagagg ctgaagataa agaaaatcag caagccacca gtggtccaaa ccagccgtct 180

gttcgccgtg gataccggcg tccctacaat taccggcgtc gcccgcgtcc tcctaacgct 240

ccttcacaag atggcaaaga ggccaaggca ggtgaagcac caactgagaa ccctgctcca 300

cccacccagc agagcagtgc tgagtaacac caggctcctc aggcaccttc accatcggca 360

ggtgacctaa agaattaatg accattcaga aataaagcaa aaagcaggcc acaaccttaa 420

ccaacaccaa agaaaca 437

<210> 39030
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E1

<400> 39030

gagagtttta ctaatgggaa tgttcgatta ctgaagcatg aatgtagcat tgtcgcagag 60

gatgatcttg accagcgatg gcaggaagcc actggagagt ctgtttctga ggtcatattc 120

ctcagcaaac acactgcagt ctccaaacgt ccagcactca cagtgcatcc aattggtgtg 180

ccacatctga aggaggatga aaccccaccc caaggaggaa ctcctggatg ggcagcaatt 240

ccaagtcctc gaattggacc ttggctccgg ttgatgcaaa agatagctgt agaacaaggc 300

cttgttccag agtttgaggt tacgcttgag gctactcacc at 342

<210> 39031
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-E10

<400> 39031

cccttcccct ttagggaggt ccagcctcgc aagctgaaac ctcccctcgg ctcagggctg 60

ggccaggcgg ccacagcagg actggccaca cccacgccgc acctcatccg tgcacgcgtc 120

ggagcacggc cagccttccg ccacgagcca gctgggaagg gccgcggctg cctaaagccc 180

cagtcaaccc agcctgtgtc tgagcagaca gggcgaacaa gcaggccaca ccgtctcgag 240

ggaggaggcc agatgcggcc agcgtctcca acagggtgac catccgctcg gcttgctgag 300

cgtttaaaca aatgtttaga caggctgtgg ggactcccct gagttgagcc ctggccagng 360

gtccggtgct gtcgcgggaa acctncagcc tttttcttca aaccactcag ctcatgtgtt 420

ttgcactgac tagta 435

<210> 39032
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-E11

<400> 39032

acgatgccag agagaactta cagttgtccc cggagagagg tttgggaagc tggcggggag 60

gaacgctctc tgcttccagc ctctttccat tgccgcagca tgacagacct ccagcatcac 120

gcatctcttg gtcccaataa ctgcctctag atacatagcc atactgctag ttaacccagc 180

gtccctcaga cttggatgga gtttctggga gggtacaccc aaatgatgca gatacttgta 240

tactttgagc cccttagcga cctaaccaaa ttgtaaaaat actatttacc aaaggtgcta 300

ttactctgta aaacactttt ttttggcaag ctgactntat tcttcaatta ttatcattat 360

attattgctt tttaatattn tattttcttg actaggtatt aagcttttgt aattattttt 420

cagtagtccc accacttcat a 441

<210> 39033
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-C8

<400> 39033

accaatcttc atttactata caaatttatt tttaaaactt cacccttcac tcaagggtag 60

gttcttatta tctctaggct ataactcaac actccactct tattacatac catcaaactt 120

atcatctaca ccaaagacca ctttcatagt ccagacatca accttcacga cgaccgctta 180

atcacccatt gtgcagacat caacgactgg cgcattgccc gagcagtcta ctcccaccaa 240

cgcccaagcc cataccaacg ctgctactac tgctcatccc 280

<210> 39034
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B2

<400> 39034

cggacgcgtg gggcagtgca ggtcgctttc ttccccaaaa ttttgaaccc cgaaccctag 60

gtctgctcct cagttacccc gtgtccatgg acatcggcgg cagcggcggc atcatattgt 120

cgcccggatc ggaggatgat aagtttgcgc ggaggcgctc ccgccgtgtg agcttcgcgg 180

acaccaccgc ggtgcacgtg ttcgaccgcg acgaggactt cgagacgcct tccgaggagc 240

gcgagcccga ctccaccccc gcacccccct ctcccaggag gtcctcggtt ggccgggagg 300

ttgaggacga cactgaggag gatttcaacc gccccc 336

<210> 39035
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B3

<400> 39035

cggacgcgtg ggcggacgcg tgggctgtag gtgggatttt tgggagttta ctgggaggat 60

gtgcgttatc caatctccca atacatgtaa tatatattgg tttctcagcc ctcccattct 120

tccaattagt ttcctgcatg tttgttgagg attcttcaaa agggttccac aacgccagtg 180

atgaacataa gtatgtagac aaccagagtt ctgttactgc cttttctgga aaagctctag 240

tgagggcact agaaggcgaa agggaacttc taaaagtaac aacagcagtc cacaggcaaa 300

gcgaactgag tctaatgaaa aatacaacgg gtcaattaat tcgttgcctt gtt 353

<210> 39036
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B4

<400> 39036

cagaggctgc gtggcaccac cagggtccat aaagagctcg acgatctcgt gtccgcgacc 60

aggacgacca ccacagggcg tcccttccgc accatactga ggcgcaagta caggccgcag 120

ctggtcatag ctctcctcgt acccttcttc aaccaggtca ccggcatcaa cgtcatcaac 180

ttctacgcgc cggtcatgtt ccggaccatc gggctcaagg agagcgcgtc cctcatgtcg 240

gccgtggtca cgcgcgtctg cgccacggcc gccaacgtgg tggccatggt ggtcgtggac 300

aggttcggcc gccggaagct c 321

<210> 39037
<211> 284
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-B5

<400> 39037

agctatatta gtctactaat ggattttgcc ttttcttggt ggtagcttta actgcgattt 60

cggttgtttg tttcgtttct atcagatatt aataatctaa aatggtgtgc agcttaggtt 120

aaaatcaaaa aaaaattgtc gggcggataa tacaaggcct acaacagaag gaataccctt 180

tgtgcgacag gcgaacagct gtctctatct ctctctgcag tgttatttgg tttattatat 240

gcagttgcag gggagaaaac taangcatgt tcactgcagc taga 284

<210> 39038
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-B6

<400> 39038

caaatataaa aataccgcct cgctacgcaa caacagccat ctgattctta cattgccaat 60

ggaagacaat cttatcgaat ggtggtggac ccaaatcaaa ctggcagcga ccagcaacag 120

tgttaatcaa atgcaatgta cacaggtaat ctacaaaact tctgctctaa gagcaagtcc 180

ttcgggattg tgtgcctcga tgtcaacatg tttaatccca ggcacaagct tttggatctc 240

agactccagc cgatccactt catatcccag agcttcaact acatcctccc cgtagttggc 300

catgaccctt agcaattccg tatcatcctt ggacattgca gcttcccgga actgttttgc 360

ccaactccca cgtncagtcc tttccaaata attttgtacc agaacaactc cattgaaatc 420

aatttca 427

<210> 39039
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B7

<400> 39039

cccacgcgtc cgcccacgcg tccgtccacg cgtccgccca cgcgtccgcc cacgcgtccg 60

gacccacgcg tccgcccacg cgtccggtca gaggctctaa gagttaggga tgagatggtt 120

ggctttggat gtctgccaga tgtggtaaca tacaataccc tgttgaatgg gctctgtaag 180

cagcacaggt tgcttgacgc ggagaaactt ttgaatgaga tggaggagag aggggttaca 240

ccagatttat gcactttcac aactttgatt catgggtact gtaggcaagg taacttcgag 300

aatgcattgc aattgtttga cacacttgtg cgccagcgtt tgaggccaga tgtcgtgaca 360

tacaataggt t 371

<210> 39040
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B8

<400> 39040

gcatgcggca cttgcaggcc accgtcgagt acctggccgg ggtggccgcc acgcccccgg 60

cggcgtccgc ggggggcggc gtgcacacgg acacgttcct catcctggcc gccgtgctct 120

gcttcttgct ctgcgtcgtc gggctggcct tcgtcgcgcg gtgctcgcgc ctgtgcaacc 180

cctcgtccta ctccgtggac gcgcgggggc ccgtcgacga cgacgacgac gaggcggcaa 240

tgccggcgcc gcgcaagggg gtcgacaggg ccgtgctgga gaagctgccg accgtgccgt 300

tcgcgttcga ggacgaggac gctcaggacg gcgagcggtc ggagtgcgcc atctgcctcg 360

ccgagttcgc gcccggggac gaggtccgcg tgctcccgcc ctgcgcacac gcctttcacg 420

<210> 39041
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-C1

<400> 39041

cttgagactt cacacatcga tccccactcc ttccacccca aggaagcgaa gcgtacgctg 60

cgcgcactgc cctccggcga ccgccccgcc gctggcgggt cggattgggt ccgatccgga 120

tctggatcag caccggcatc gccgcgacaa ggatgtcgac cccgaggcag cggcatacct 180

ccacctccgg cgggggcgga ggagggaggc gcgccgcctc cgggtcggcc atgctgcccc 240

ccgtggtggt cctcgtgttc ctcttcgtgg tcgcgccttc gctcttcttc gtcgtgcgca 300

atgacggtcg cgcccacgcc cacgtncacg tagcctccga tcgcaagggt aagaatggca 360

atcaggaagc agcagcaatg aagaacctaa atctattttg cccaagaggg tgttgatgct 420

ataa 424

<210> 39042

<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-C10

<400> 39042

cttccctgga gccgcccgct tgcccttcgg tcgctagctc gctcggagcg cgtcgggccg 60

gtccatggcg ctcttcgggc gggtgctggc tctcgccctg gctctggccc tgggccccgc 120

cgcgaccctg gcgggtcccg ccaagtcgcc ctaccagctg gtgctgcagc acagcaggct 180

ccggggccgc cagcacggcc ccaacgtgtg tgctgtgcag aacgttattg gcactaatag 240

gaagtacttc accaactgca agcagcggta ccaaaggaaa atctgtggca aatcaacagt 300

catcagctac gagtgctgtc ctggatatga catggtccat ggggagaacg gctgtccagc 360

atccctacca ctgtcaaacc tttacgagac cctgggagtc gttgg 405

<210> 39043
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-C12

<400> 39043

cacacgcatg ccttgaaaat acacttttac tctgatccaa gcacacaaac agctcaggcc 60

gtgacacact attctgcgcc aggcccatct tctctcctgc cttacaacgc catggggagc 120

aatctcaacc cccaactctg cctgatgccc tttatcttgg gcctcttgtc tggaggtgtg 180

accaccactc catggtcttt ggcccggccc cagggatcct gctctctgga gggggtagag 240

atcaaaggcg gctccttccg acttctacaa gacggccatg cactggacta cgtgtgtcct 300

tctagcttct acccgtaccc tgtgcataca cgtacctgca gatctacgga gtcctggagc 360

accctgaata ctcaagacca aaatactgtc aggaaggca 399

<210> 39044
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-C2

<400> 39044

cgatccatct cactctccgc tggtcgctca ctcttgcagc tccacccttc actcagtctg 60

agtctgttat tagctctagg ctctagctag ccgcgccact ccttcgtgta gccatcagcc 120

ttctcatcgc caccaatggc cactgccgag gtccagaccc cgaccgtcgt ggcggccgag 180

gaagcgcccg tggtggagac cccgccgccg gccgtcgtgc ccgaggagtc tgcccccgcc 240

gaggccgagg ccgaggccga ggctgctgct cctgctgatc ccgaggagct tcccgcggcc 300

gagcagcagg cagccgccga ggcggaggcc gcggctcctg ctggtgccga ggagcccgtc 360

g 361

<210> 39045
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-C3

<400> 39045

gagctgagta gtctgggtgg agcatcgtcc tctacacctt atagtaagga tagaatgaga 60

cgacaggggc aatatggtga agcggatatt aactccatgg ttgttgccca gttgcatcac 120

taccaggcac aacaaagggt acagaaacac cctgagaata gctacactgg aagagatccc 180

gcacaagctt ctacggagca tcaatacact ccccctaagg caagacaaag tcaatgggat 240

cgaggtggac caaatgtgcc aagccaggtt ccatcatatg tatatataac gaaggttatg 300

gctccacctt tgcaccaact gctgcagcgc ctac 334

<210> 39046
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-C4

<400> 39046

ggcatccgaa tgtttatccg gatgggcgtg tttgcatttc tattcttcat ccacctggtg 60

aagatcccag tggttatgag cttgcaagcg aacggtggac accagtgcac acggttgaaa 120

gtatagttct gagcatcatt tcaatgctct ctagtccgaa tgacgagtct tcagcaaata 180

ttgaagctgc caaggattgg agagagaagc gggatgagtt caagaagaag gttaggcaat 240

gtgtccgcag gtctcaggaa atgctgtgaa ggaggaacat gggggagttg aatgagtctg 300

caatcggtgt gctgcaattc acaaccaatt atctcatgcc atcattcttt tggtttcccc 360

tgtatatttt t 371

<210> 39047
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-C5

<400> 39047

gaagctgctt attcagaacc aagatgagat tattaagtct ggtaggctat cagagccgtg 60

caagggtatt gttgactgct tcaaacgtac cattaaggat gaaggtttct cttccttgtg 120

gaggggtaac actgctaatg ttattcgtta cttccctact caggctttga actttgcatt 180

taaggactac ttcaagaggt tgttcaactt caagaaggat agggatggct attggaagtg 240

gtttgctggc aacctggcct ctggtggtgc tgctggtgct tcctctttgt tttttgtgta 300

ctccctggac tacgcgagaa caaggttggc taatgacgcg aaggctgcca agggaggagg 360

tgaaaggcag ttcaatgggc ttgtcgatgt ctaccgcaag acactcaagt ctgatggtat 420

ngctgggctt taccgtggat ttaaca 446

<210> 39048
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-C6

<400> 39048

cccacgcgtc cggtacatac agagattata tgcaaagtca attcagcatg caccatagac 60

gtccatccga caaagccatg gatggtcatc actcaagcta acaagtttgt tcatgtttgg 120

gactaccata caaaggtagt ggaatggacg attcagatta agggagcgaa agttagttca 180

gctaaattta tagccagcca ggattggatt gtggcgggta ctacccgtgg attccttcac 240

gtgtacgatt gcgaatcgag gaaggaaata cgccgtcttt gtgaacaccc gaaatctatc 300

acgtctttgg ctgttgacga tgatgccctt gagctggtgc tgtcagcgtc catcgatggc 360

aagattttga tctggagcta ctggcactac taccgcgcac gtagaggtag acgtagtacc 420

tggcatttgg aaaaaacatt tgacg 445

<210> 39049
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-C7

<400> 39049

agcaaacccc aaggactatc tcactttctt ttgcttaggt aaccgcgagg tgaagcagga 60

gggagaatat gaaccagagg agcacccaga acctgacact gattacatgc gggctcaaga 120

ggctaggagg tttatgatct atgttcatac caaaatgatg atagtggacg atgagtacat 180

catcattggg tctgccaaca tcaaccagag gtccatggac ggtgccaggg actccgagat 240

cgccatgggc gcgtaccagc cgtaccactt ggcgactagg cagcctgccc ggggccagat 300

ccatggcttc cggatgtcta ttaggtacga gcacctgtga atgctggaag acgtcttgca 360

gcggtccgag agcgtatagt gtgtgcagat ggtgaacaag gtcgccgaga agtactggga 420

cctgtactcg agcgacgacc t 441

<210> 39050
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B12

<400> 39050

ggcttgtatt gttcattcat gattagtttt ttggtgctgg gacccccgtg gaggggggtta 60

gtctctacac catcactgct ggaacaaggc cccagcttcg ccttctatgt gcccctggtg 120

gtcctcatct ccatctccct tgtgctgcag atcggcgtgg gggtgctgct catcttcctt 180

gtcaagtacg accttaacaa ccctgacaag cacgccaagc tggacttcct caacaacctg 240

gccacgggcc tggtgttcat catcgtggta gtcaacatct tcatcacggc cttcggagtc 300

caaaagccct tgatggacat ggcaccccag cagtatgaca ccc 343

<210> 39051
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-G11

<400> 39051

ggacctttgg gctggtttat gtgcttgtct aggtctaacg cgttcgagtg agctacttgg 60

tggtgttttg agtttgttgt atgtaggggt tagcggtggt ggtggtggtg gtcacgggta 120

gtagtagtag tagttagcgg gtccttttgg ttcgcttcgg aaacgatgat tttggatatt 180

gctcgattac ggcaaaatcg gcagaagtaa taaagacgtg cgaggaatag acgaaggttg 240

aagtctatct agggagaagt agtgtcgtag tagcagtccg caggcggcgc caagaccgca 300

gtctccgtca ctagcgccaa ctgcctaccg ctaggcggcc gtccaccgct gctcgtaatc 360

gacgttgcgc atcttttgac gtagtacgct ggcactcgat catcgaaccc gagatggtcc 420

tctctggacg cccctct 437

<210> 39052
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-G12

<400> 39052

ggcacgcttc cttgcgcctt cgatcgcgca cgctctggac gccgattcga ttgctagaac 60

gagaaggggt tcttcacgag gacactaaga aagtcaccaa ggtcgtcctt gagggcttat 120

ctaagggcac tacgggccac gcggaagagg actcggccct cattgatccc tccggcgata 180

gtaggctgag tactcctgat gttaaggttg ggactgtct 219

<210> 39053
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-014-Q1-K1-H10

<400> 39053

tgcttgttta tgtgcttgtc ccctcctctg aaagcacaaa aggcgcccgc tcccgaaagt 60

cagaaaaggc agtccctcac cacggtatac tagcttaaat tacaacccag ctacccccac 120

atcatatgcg taacgggcac gaacttaagc cgcgagagtg caagaggcga atacagtaat 180

tagcacgaaa tcatccaagc cgacggaaga gtagcctttc cgtcacgatc gacaccccac 240

tgaaacgtac agtaaaagtc acgcgatcag aaaaaaatgg aaatactcca cagcccggaa 300

cggagatcca ataccccgcc ggtcaggata ccgggtcaca ctccgtcatt cntctatccg 360

gtataaacaa tcctacccgc cctttagaga tcgccaccaa cgtcccgtag gaacatatac 420

caccctccgg cacttaccga agcacataac atccaa 456

<210> 39054
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-H12

<400> 39054

tgcttgatta agcttaatct aacgaaacat ccgactctaa gctcgacatc gaccctacag 60

ttatatagga cccctcgagc ctacgtcaga tccatcgtat aacataccca acccttaaca 120

ctcagacacc ataataccta cttagtacga aatcgccgcg tcgaccctcc gaatcacaca 180

ctacgccaca agtaaccaaa aaactcctct catccgaacg cgtcagaccg attacattca 240

ggttcccgcc cttcctaaaa tcaaaccgat tcacaacgcg cgataaaggg agcatcgtct 300

aattgaccca cggcgccccg agtcaaacac acgcgtttcg cccagcatcg acctaagcac 360

aagccattcg accagcgaat tttagattaa cttttagcag aacttcgcct accaggagta 420

cgggaac 427

<210> 39055
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-H9

<400> 39055

tttgggctgc tttatgtgct tggcccgagg cagatacaaa ggaatcgttc gcgtaaaccg 60

atattctgat tcatacgtta ctacaaacgg gaaggataat cgagaagaga ggaggacagg 120

ggagcgagta gttgctcgga gacggccatt cccgaatcac ttgactcgga ggacccgacc 180

cgttcttccc gcgcatccca aaaagggtag ttaggacgac gactcgcacc ccaagataac 240

gtcgctcgcc cgggcccagg accccgtccc gctgaaaatc agtatatcca ccgcatcatc 300

gagtagtaca cccgccccta ctttcgggcc aaacgacgtg ctcaaatatc ctcgtcggtt 360

cgaaaagagt attattgctc cggctcttta gtagtaggta gtaccgatct gtcaaaaagc 420

cataacctct agacgtggac gagtt 445

<210> 39056
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-A1

<400> 39056

cactgctcag gtcgggaacg cagaggcggg tgcaacaaga aggccgggcg agaagacaag 60

aggaagccaa aaggagaacg agttcggaag ggagcggatg gcaatggctc tgctccagct 120

attgctgtcg ctcctcatcg tctcctgcgc cgcgcagtcg ccgtacgcgt cgaaggctcc 180

tccgctcagc gcctcggcgc cgggggctc tgtcgcgcca ccgacaacgg cggtctcggc 240

gccgcaggcg tctgcacagc cgccgacaac agtcgccgcg tctgggcctc aggcctcggc 300

cgtagcacca acaaaagcag ccttggcgcc acaggcctct gctgcgccgn caactacagc 360

tgcctcgccg cagctggctg ccacgttggc ccccgtttcc tcaccgncac tagct 415

<210> 39057
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-A10

<400> 39057

cccacgcgtc cggcaggctc cgggcttaag attgcttctc ttctctcctc caaggtgtag 60

ggactgatcc cgcgcgcggc gccaccatgc ggcagaaggc ggtatcgctt ttcttgtgct 120

acctgctgct cttcacttgc agtggggtgg aggcaggtaa gaaaaagtgc tcggagagct 180

cggacagcgg ctccgggttc tggaaggccc tgaccttcat ggccgtcgga ggaggactcg 240

cagtcgccgg gctgcccgcg ctgggcttca ccggcgccgg catcgcggcc aactcggtgg 300

ctgnctcgct gatgagctgg tctgcgatcc ttgatggggg c 341

<210> 39058
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-A2

<400> 39058

gtcgggaacg cagaggcggg ggcaacaaga aggccgggcg agaagacaag aggaagccaa 60

aaggagaacg agttcggaag ggagcggatg gcaatggctc tgctccagct attgctgtcg 120

ctcctcatcg tctcctgcgc cgcgcagtcg ccgtacgcgt cgaaggctcc tccgctcagc 180

gcctcggcgc cgggggggctc tgtcgcgcca ccgacaacgg cggtctcggc gccgcaggcg 240

tctgcacagc cgccgacaac agtcgccgcg tctgggcctc aggcctcggc cgtagcacca 300

acaaaagcag ccttggcgcc acaggcctct gctgcgccgn caactaca 348

<210> 39059
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A3

<400> 39059

aacaaggaac caccattttg atgcaaaggt tagcatctgc attttactcg agttacatgt 60

gactgctacc ccttaatccc ggggtgcctt tgatttgcga catccaggag cagatgcgac 120

aggatcacaa gtaggaggag ctgcgacgat gctgtagcga gagacatggg tgccgaggtc 180

gttgtgctgc ggtggtggca ggacaggaag gaaacgaaaa agcaggagcc agggttgttc 240

aacaacgtga ccgagtcgct gaggcgagga agagtaaggt gaaggcactc gtcgacgcct 300

ttgagactga cagagcgtca tctcgctgca ggaaaccagc aagcctgctg ctgctccagc 360

tatgaaagta ggtgtcgtgc catgagtgct tcttgacctg cagtgtgcat gatcaccttt 420

cttggaattt ta 432

<210> 39060
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A4

<400> 39060

cgaggacagg atcctcacca ccaacctgtt ttccgctgag ctctccaagc tcgcacgcca 60

gggcgtgctt tggcacagag gatctcctct gtcaatgcca tctccgttct ctgcgaggca 120

accggagcca atgtctctga ggtggcttac gccgtgggca aggacacgag aattggcccc 180

aagttcctga acgccagtgt tgggttcggt ggctcatgct tccagaagga catcctgaac 240

ctggtgtaca tctgcgagtg caacggcctg cccgaggtgg ccaactactg gaagcaggtg 300

atcaagatca acgactacca caagagcctg ttcgtgaacc gcgtcg 346

<210> 39061
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A5

<400> 39061

gatctgcccc tgcactgccg atcaaataaa ggcacatcct tggttccgag gagttgcatg 60

ggataaactt tatgaaatgg aagcagcatt taagcctcaa gtaaatgatg aactggacac 120

acagaatttc atgaaattcg aggaattgga aaatcctcca gccaaaacag gctctggacc 180

ttcaaggaag acgatgctga actccaaaga tctgagcttt gtggggtata cgtacaaaaa 240

cttcgatgcg gtgaaagcaa taaaaatttc agatctgcaa aggaattcat ctctaacaag 300

gccttccatt ggttcaatat tcggtccacc aggcatggat tctcccacgg aaccaaacgg 360

gaggggcaca catatgcaca c 381

<210> 39062
<211> 428

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A6

<400> 39062

cattaacctc gggattaatg aaactgtgaa attatcagaa tcaaatggat gcaagactga 60

acactttgta ggacccagta aaattaatgc taataatact atttcttgtg gagagggagg 120

cgaacaatca gaaagaatac tgcaggatgc aaatggaaat ggccagccaa tccatcagtc 180

ccagtatctt ggtgagacca gtataggcaa tgccacgccc gctcaacaag agaccagtaa 240

tggcaaggcc tcacatgctg aacaatgttt tgaggggtca tctcaccaaa aagagcatgc 300

aaactcttta agaaacaaac gccaacttga agaagataag tttcagaaaa tgcttgctaa 360

gtcagcttct tctgagcttc ggctgtctgt atggatggaa tgatgctata attttatgcg 420

ctcgcaaa 428

<210> 39063
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A7

<400> 39063

gacccacgcg tccggaagag acacttccgc agaaagaaaa tgatccagct gatgatgcca 60

aggagaatgg agtagcttaa tcgcaagaaa aatgaagaat gaatacaatt aacttctctg 120

ctggaggggc agtaacacgc agaatcaaaa ccatggcagt atttgttggt agttgtattt 180

gcttttgctc catgtagcct ctactccaaa acactttctt gacttgatat gatgctgtat 240

aattctagtg tcctatcagt tttcagcttg cttatggtgc aattaaaatt ctatgtgcct 300

gatgaaattg ttcttatgaa tgaagaatga taccaggact atgttcgttg gcaaaaaaaa 360

aaaaaaaaaa ataaaaatgg aagaaaaa 388

<210> 39064
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A8

<400> 39064

cagaacttca ctcaagatct tccccctgct cgtgttcgca cggtcaagaa cagaaggatt 60

gcgtactccg aggccattcc tctgagaggt tcaacatcca acgacactga gcacctcaag 120

agctttggca gtacgaagcc tgtttcgtca gtggtcgtct ctgtgctggc tgatcccaga 180

gaggctggcg atggggatgg tgagggaagg atctcttcaa aatcattgtc ccgcatctta 240

gttgtcgttc ttatagatag tgttaagtat gttacgtact cttgtgtcct gccgttcaaa 300

agccatagcc ctcaccttta ggtcttggtt ttggacgtga gttgataaaa gctgacctat 360

accatttata gcagaagagg tgtaaggaca a 391

<210> 39065
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B1

<400> 39065

cccacgcgtc cgcccacgcg tccgcccact cgtccgctca acttcttctc tatcttgatg 60

cttgcttcgg ttccaaatcc actctttgac cttgctggta ttatgtgtgg gcaatttggt 120

gtgcctttct gggagttctt gtttgctact ttgattggga aagccatcat caagactcat 180

attcagacac tatttatcgt gtccctgtgc aacaatcagc tcttgtatct tattgaaaag 240

gagttaatct ggatatttgg tcacgttcct gggttttctg ccacccttcc gtctgtgatt 300

gccagactcc atgctgccaa ggacaagtat ctatcaccac cagccccagt ctcaccgtca 360

tcacaaatgg gggagaaaca gtggaatttc tcttttacat ctgtctggaa c 411

<210> 39066
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B10

<400> 39066

atggtcaaga ctctttcaac aaggcctgac tccaagccca agagcggttc atacaggtgc 60

aaggctcggc gaaaactggg acatatatgg gggtggcaat aataaaaaag gtgtttctga 120

aacactagtg ctcaatatgt caactctgac atggtcagtt gttatcactc tggaaagaca 180

cgttcctctt gccacagagg gcatgactct agtgcatatc aattacactg ggtatgatta 240

tatcgtctct ttttgaggat acactggacg atacaacaac gcggtgtaca ctc 293

<210> 39067
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-G10

<400> 39067

tttgggctga tttatgtgct tgtttatgtg cttgaccgcc cccgctctca cggaccatag 60

tcataatagc tcaaacagtc gaccgcaact tgaagtgaat agcttaaata gctctccgcc 120

ccgagccatt aagggacccc ccgcgcgatc tcgacaaaag acgcaatcga acgccccacc 180

acagcccaca ttacccgaat tgcatcccca ccgtctgtta aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaataa aaataaaaaa aaaaacgaca aaaaaaagat aaacataaca 300

ctctataaaa caaggatacg cattaccgaa agc 333

<210> 39068
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-C9

<400> 39068

tttgggctgc tttatgtgct tggagacccc ggtaccttta gcctagaagt acactctcaa 60

acgaatcgaa gaggaaggag tttgattccg acacggaaat attggtactc cataaggaat 120

taaaaattaa cgccggtggc aggctactcc tataaagtaa cggctgtgga ctatataagc 180

ttaataagtg cgaaaagtct gatcctaact actcaagatt gaagaaacga aaaacggcgc 240

ctgagccagt ctccgcatct cgcccgcagt cgcatttaac cggttactcg tcgcgccccg 300

ctgaccacac tcagagagtc ggcaattacg cttacgcgat tacgcggtac gtacctccag 360

cgagaccacg cggcgccaac tacccccctcc ctcaccgacg cgcctcatct aatcatctcg 420

tcgcaagacg cgaggtctca tcgcatagta gcgacgaacg 460

<210> 39069
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-D10

<400> 39069

ggacctttgg gctgatttat gtgcttggac gccctcagct tcaagagagt cagggctcga 60

aaagaaccct accgcaaaaa aacaccgcga cacgggagaa gtcaccggag aaaacgagtt 120

acgtatcccg ccgttcatag ttcgcaattc atcattatat taagtcaact cgggcgaggc 180

actttgcgtc tagtgtatca ccgaagttgc ggagaagtcg ccgtcgtagg ggacgggcct 240

agccaccgaa cttaaggata ccaccggaac tcataggatc ttaccaccgg acgattatgg 300

ataagcttgc cattacacct attaaaagta agcataggcc attggacgct actgcggaaa 360

tgtaaacgct tgccacgtac ggtccttccg tcttaaaagt atcgcgtacg caacgacgtc 420

gaacggcgcc cgtaagccga caag 444

<210> 39070
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-D11

<400> 39070

gctggacctt tgggctgatt tatgtgcttg ggctccccta acgcctttaa acgctctcct 60

ggatcctacc gacgagccaa ctaaggtaga cgaccccgat acgaactcga tcgccgacac 120

gtcccacgag tcgaatctat aagacacggc ctacgacgac ctcgaggcca ctaactaccc 180

ctacgacgac ctcgaggtca ttaacgattc ctacgacggt aagggtgcat tcggcgtcga 240

ccattataag atcgcggcgt ttgagagcag tagtaatacg aactaagatt cgtagaatga 300

ggagctagta ataatcctcg acgcgaaact cgcgtcgtta aagcctctat agactaaccc 360

gtcctataac gattcgagtt cgttcgacga cgacaagcta gtggcgatcc tcaccgtaaa 420

ccgactccct acact 435

<210> 39071
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-D12

<400> 39071

tttgggctga tttatgtgct tggtaggcgt ctacccgcca cgtcacttcg ccgtacctaa 60

cacgatcatc ggattatcgt accgggagcc gtcgtaaagg gtaagggtca tagataatta 120

ggcgcgtcgc gtcctcccgc gcgtcggcgc cttacccctt ccaatcccta cccggtacta 180

ccccgttagc cccacgtccc aaaacgccaa ctgatcgccc ggcgttagtc gcccgccgta 240

atacgtggtt tagtctgaga cattagcgta ggccacgccg tccggggata tcttatctcc 300

gccggattcg caagccgatt cgagaccctt acccatcctt tcccagcctc gctagcgatt 360

accgtccact cagtccttag atcgacatca cgtattatta tacaatcaac ctc 413

<210> 39072
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-D6

<400> 39072

ccttggtagg cgtctacccg ccacctcact tcggactacc taacacgatc atcgaattat 60

cgaacggaga gccctcataa aagttagggt tcataaataa ttagccgcgt cgcgtcctcc 120

cgcgcttcgg agccttaccc cttccaatcc ctacccggta ctaccccgtt agccccacgt 180

cccaa 185

<210> 39073
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-D7

<400> 39073

tcttctttct tgtctgtcct gaatttaggg tttcccccaa gttctgggtg acttggtcac 60

ataactcgtc agggcccttc ttggttggtt tggctacgct cctgctggtg gtgtcttctt 120

cttctttttc ttctattgct gtcggttagg ggttggctcg ttagaggttg tttgctgttg 180

ttgctacttc gtagtaggtg cctattcgct gagtggcgga tgttttacgg tcttggagct 240

attgtcttgg tcctacggat ggggacgacg gggtttcgta aaacgtagca atatccgcgt 300

cgtaaaataa ggaggacccc gctgtcacct ccctccacgt cctgcggcgt tttcccctca 360

aaacccctag gataaacccc taaaaatcgc tacttccc 398

<210> 39074
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-D9

<400> 39074

tggcctggac ctttgggctg atttatgtgc ttgtttatgt gcttgtttat gtgcttggga 60

acgcgaagac acggggaata ctattagacc ttaccgacgt cctcgaggat agaaaaagac 120

ccaacgtaac ctctgaggag tcctaaaccg aatagttaaa gggagggacc gtaagaagcg 180

agctcgacgt tccggtaacc gttctagaag caggccattt cgccgcggct tgcttactac 240

acgcctccgg cggatgggta acggagaccg cgcataatga tgaaaaatcg actaagcact 300

ctgtaattgt ggcgtaagca gacttagaaa ggttcgcccc agcggataaa cactcaaccg 360

acgtagccga aaccgacgcc gacgtaccgg tcgatatagt cgggaacgcc gcgaccggcg 420

gaaccacgga gtacactgag taggtcggca catacctagg cgacctagta cgcct 475

<210> 39075
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-E10

<400> 39075

cgtctacccg ccacgtcact tcgccgtccc taacacgatc atcggattat cgtaccggga 60

gccctcctaa agggtaaggg tcatagataa ttaagcgcgt cgcgtcctcc cgcgcgtcgg 120

cgccttaccc cttccaatcc ctacccggta ctacctcgtt agccacacgt cccaaaacgc 180

caactgatcg tccgacgtta gtcgcccgtc gtaatacgtg gattaatctg agacattagc 240

gtaggccacg ccgtccgggg atat 264

<210> 39076
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-E11

<400> 39076

ggacctttgg gctgatttag tgcttgaaaa aaaaaaaaaa aaaaaaaaaa aaacccaaac 60

aaaaaaaaaa aaaaaaaaaa aaaaagggaa gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aagggtggtt gccccaaagg acttaagtcc atccatgtgc gtccgtaatg 180

ctacagtccc ctcacagggc tattcaaacc aaaccaatcg gttgctgccc cataatgctg 240

ggatcgggaa aatttcggtg ccatttaatc caactgttcc gtagaaaact tttcccctgt 300

tagccggtgc aacagtaaaa aggtttgaat tgactgttcc ctttaatagc cgtttaattc 360

gaacggtgaa cg 372

<210> 39077
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-E12

<400> 39077

ggacctttgg gctgatttat gtgcttgttt atgtgcttgg tgttttgtgg ttttgctggg 60

cttcttcttt cttgtctgtc tggaattaga ggttctgtga tgctctgtgt tacgtgggtc 120

tgtgactcgt cagggccctt cttggtgggt gtggttacgc tgctggtggt ggtgtcttct 180

tcttcttttt cttctattgc tgtcggttag gggttggctc gttagaggtt gtttgctgtt 240

gttgctactt cgtagtaggt gcttattcgc tgagtggcgg atgttttaag gtcttggggc 300

tattgtgttg gtcctgcgga gggggacgac ggggtttcgt aaaaggtagc agta 354

<210> 39078
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-E9

<400> 39078

ggacctttgg gctgatttat gtgcttggcc taagaagacg cccgattcta ctgagctcag 60

cataattcga atgggtatac ttgtcggact cttgtttaga cgaattgtgc ttgtaatggt 120

gagtcgcatt gtcatactcg tgatattaag ggtgttcctg cgtagttcgt ccctcatgag 180

gtccctgggt cgatggcggc cgaggttacg attcgtggtt cgtttatgcc cgttatagtt 240

catggtggct tggttgagac tactgcgtat ggtgcgctcg gtcattatac tgatttccat 300

tagggtgata aggtgctggt ttcgtctgcg gatcctcctg ataagcgtta ggtggatttg 360

agttatcgga gtaagactct ttagggtggg tcttagtgca ctgaggagaa gcatattcgg 420

a 421

<210> 39079
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-F10

<400> 39079

tggacctttg ggctgattta tgtgcttgac cgacggagaa tacggggtta cccacgcctg 60

tacacccgac ccgagagtcg gaggagataa gactatgtag gtcccgaaac tcacacgtcg 120

gaggagtaag gttacttaag cagaggtcgg caagtaagta tgattggaga agcccgagac 180

ttcagtcaaa actaagtcga tatcgtagtt acggatgctg agtccaagag gcggctacta 240

agaaggtaca tgagacggat tccgtttagc cgcatagtta acgatatcac tatcataacc 300

ctctaaggac aggggcgccg tccagtccgc agtaattgac gataacgccc acccccgcat 360

cctgaatcac gcccgaaagt acgctccctc ccctagatag cggccgatcg gcaaactaac 420

cgtaga 426

<210> 39080
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-F11

<400> 39080

tttgggctga tttatgtgct tgtttatgtg cttggtggcg gtcgcttatc cgtactacag 60

gagtactcat gaggagggtg atgtgactaa gtgatggaag tgtcatgttt gtttcccggc 120

cgactcctag acgaagacgc atcaccatga ggggacggag ttccggagtt tgaagaaaaa 180

gacgttcggt gacgcgttgg agggagttgc gtcgacttgg gaatatatag tgatgattaa 240

ttcgcctagt cgttctcggc ctaatgaggc gaattctcct attttatgtg attagactag 300

tcctggtcat gcggtgtgta ggtctggtga tgtctctgag tctcctacgc cttttaatcg 360

tgagcataat ctgtcgcctg cttcgtatag gtatatgagg gagtatctgc tcaaggctga 420

gcgggttaaa atggctgatg agactgcgga g 451

<210> 39081
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-014-Q1-K1-F12

<400> 39081

ggacctttgg gctgatttat gtgcttggct gttcagtccc ggagattcga attatccgac 60

tagcgtaata acgagcggag cgatccgtcg ttcttgtcct ttcggatagt cgaatctgga 120

ttcgtgtaag tctgtagcta attcgacctt gcctttctgt tcgtatcctc ccacggctgg 180

tcccgtgtta tctattctgt gcggtctgta gtagcattgc gtctctatcg ctttcgagtc 240

aatttagtag acgcgggacg ttaagaatac gacgcgcgtc gtcgatttgt gctacggttg 300

tcactctata gtactcgtta cgccttgcgg aaagacgagt attaaggagg cggatgagta 360

aacgactaac gcttagaata agaatctgcn tcatcctgcg gagcggactt ttaataacgc 420

ga 422

<210> 39082
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-F9

<400> 39082

tggacctttg gtctgattta tgtgcttgta aaactcggac gtccacgtga agtctcctta 60

agtatttccg ctctgcgttt aggcggaggt ctctgtcgtc tctcccggtc gggcgacgct 120

cgacgacgaa ggcgaggccg ccttttcgg gatagttatc tcggctcgtc gaccatagtt 180

tatggctgtt caacacctta atcgccgctt cacggacttc ctttcaactt cacctcggaa 240

cgcttgtggc tctaatctcg ttgtcagata ggacgccgtc aggagcccgg ccgacctgtc 300

aagagcagac gccgctcgcc cgtaagaaat aaagccggct aaccgtgact gttgtatagc 360

cccgctaacg ccaggtgtcg acctcgataa caatcctacc cgctcgtttc tggccggggt 420

aagcggcggg gcgtcgaccc tccgg 445

<210> 39083
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-C12

<400> 39083

ggacctttgg gctggtttat gtgcttgtgg atgtgcgggt ttggtctgag actgaacctt 60

tgttctcgtt aagtagtact ctcctcgata agggtcttct agacgagcct actgacgtta 120

atacttagtc cgtctctgcc gccgtcagga agtctaaaga gtctaagggg atcaggctcc 180

gcacagcgcc cttcgactaa ttcgaaaaat gcagggtact agagccgcct aagatagtca 240

cagatatgac cgagggcgca attactagtc tttcggacga cccatttatc gatttcgcta 300

atagtcctcc taaactaaca agaaatattt cggaccccga tcctctagac gataacgaag 360

gcagacggaa actcgacgaa ttattactgc cacacactcc tactaatagt agtatgtgcg 420

attccgtcct cacagagaag cacgcggaaa aagccgttat actcgcct 468

<210> 39084
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H5

<400> 39084

ggacctttgg gctgatttat gtgcttggga gcggggacga agtaacctag caaagctcgt 60

agggagtctc ccggtacgtc ctagaagacc gacggcgata accacttaga gatttcgcgt 120

tgtacgccta ctactaacgt aggttaggga ccttggtcct cacggggtat tgctaagagt 180

ccctccgatt taaagattat cgtaaagacc tacgcctcgg gcaataagca ctagagtaag 240

tcctctgagg cgaccgacgt cagcgagccg ttagaaaccc ccggcggaat tcgttgacgc 300

gaaggcggcc gtacgaaggt cgataaaggt ttccggaagg attttgaaac tccgaagacg 360

gcctaaagcg gcgacgggag gcgcggacta tctggcatgg ttctccctga ggtcttggag 420

aaaacgaccc gcga 434

<210> 39085
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H6

<400> 39085

tggccttgga cctttgggct gatttatgtg cttgtcgcaa gcagtggccc ttggcactca 60

gccgtccgtc tcctcctcct tgtcgagggt gggtgatcac ctccgcttcc ttcttgataa 120

caaattaatg ggttcgagac tctatcgcga gatgtcgcaa acaaggaaat acggaagccg 180

ggagtcagct accgaggatg agccaggttt cgcctgccca tactggaccg tatttgaaac 240

caccttggtc aactaaagcc cacacaaacc acagaagtaa cttggtctgg aactgccttg 300

atttattaac ttgatataaa tgaataaggt tccagtggcg cgtacttagg gggtccccgc 360

ggtctaacac gcgacgttcc cctgttttcg tcgacccctc gcaaacaaaa tgacgtcggg 420

agttactggc gcgaccgaat cagcgtctcg gcacgtgcgt 460

<210> 39086
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H7

<400> 39086

ggacctttgg tctgatttat gtgcttgttt atgtgcttgg ttggtgttcc ttatgctctt 60

agcttgatat cttgatctat cgtttgcgtg ttggtttaat ttggtgtaac ggttgctgat 120

cttgtagttt tgaggtttct gacgttcttt tgatctgttt cgtgagttta ttctcgactt 180

cttgttctct tgtcattaac gtgtgtgtct tgtccatctt gtagatgtcc gtgtcttccg 240

attatagttc atgtcgctaa gtaggatatg gtttctcgga tttgcgtatt tgctcttgtt 300

actagcgtcg gtattgatga tggtcaatgt cgttctactg ttgctgattc actcgatgtt 360

atggattctg gggatctgca tatgaatttg ggttgacatt cgtcgacttg agcatttggt 420

gaggagtct 429

<210> 39087
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-H8

<400> 39087

tttgggctga tttatgtgtt gaaccgaagt atcgagggct ctccataagc acnacgaatt 60

taccccgcgc cttccccgta atcatgaaca cgggtctcgt gacttccgta acggactcgg 120

cgcgatacga ctcgacgacc ttccccctta acccctcacc caggaaatag cgaccattat 180

agtctacatc cctcgcgatc cgtagggacg gacgggatta aatcacctca cccttatagt 240

ccgcgtcatt agcaatcctc gcacttccaa cgtagtaaat tatactagaa gaggtgaagt 300

cgatgccacg tctcgtggcg gcctcgacgt attctccact ttaactggac cgggaggccc 360

cgcggttcgt agagtatccc tatagaggaa tagcgattta ataaaagtcc tctggttccg 420

ggatacggga tgcg 434

<210> 39088
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H9

<400> 39088

agaggacagg ggagcgagta gttgctcgga gacggccatt cccgaatcac ttgactcgga 60

ggacccgacc cgttcttccc gcgcatccca aaaagggtag ttaggacgac gactcgcacc 120

ccaagataac gtcgctcgcc cgggcccagg accccgtccc gctgaaaatc agtatatcca 180

ccgcatcatc gactagtaca cccgccgcta ctttcgggcc aaacgacgtg ctcaaatatc 240

ctcgtcggtt cgaaaagagt attattgctc cg 272

<210> 39089
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-A10

<400> 39089

gacctttggg tctgtttatg tgcttgaaaa caaaacaaca tccgtaatta gaacctcaaa 60

aataacaaag gttactatcg cagggactaa gtccatgcga attcgtacgt gaagaagctg 120

tcggcggacg agtttgttca tgccaagctg atcgtttggt agaacataat ggtggaatcg 180

tgaaaatttc gcg 193

<210> 39090
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-A11

<400> 39090

ggacctttgg gctgatttag tgcttggaaa tccaaacgga gtagcagcac tcactacacc 60

ggcattttcg ccatcgagca caaccccgaa ctcacgcatc gctacaaacg agacaaaagg 120

gtggttgtct cagaggactt aagtccatgc atgtgcgtac gtgatgctac agtctcctca 180

cagcgctatt caaacctaac ctatcggttg ctgccccata atgctgcgat cgggaaaatt 240

tcggtgccat ttaatccaac tgttccgtag tatacttttt ccctgttagt cggtgcaaca 300

gtgaagaggt ttgtattgac tgtttccttt aatagccgtg tagttcgaac ggtgaacggg 360

atgtgtttcg cagtggtgta ccaagtgtgg tgggcgcggc ggccatgtgt agtgcgatt 419

<210> 39091
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-A12

<400> 39091

gacctttggg tctgtttatg tgcttgtctt ctgtacccct tccgtaattg accgctcact 60

ttttctttaa ttaaagattg acggtgttta aggttgagaa gaagtttgtg gtgaagaagt 120

tggcggagga ggagtttgtg gctgagaaga tgattgttgg gaagaagttt aaggtggaga 180

agtgggcttt tgtcggtaag cttgttggta aggagggtgg tgagggtaag tgcggtaaga 240

agaagggtaa gaagagtgcg gagatgcata agactcatac tcctaaggcg tcgaagtagg 300

cgtatttgga tactggtact cttcttaaag ttacgcttac tacgaatctt cctactaatg 360

atactcctga gaagtcggtt ggtgaggttg ttaagtctgt gtgtcataat aagaagt 417

<210> 39092
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-A2

<400> 39092

attataatta ttttttttctc ttttttttta ttttttttttt ttttattatt ttttttttttt 60

tatttttttat tttatttttt ttattttatt ttttttattt ttttattttt ttttttttttc 120

tttatttttt tt 132

<210> 39093
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-014-Q1-K1-A9

<400> 39093

tttgggctga tttatgtgct tgtttatgtg cttgtttatg tgcttgttgc gcttcatgag 60

tagctgtatg taagcgctaa gagatgaaat ggctgatacg gtctgtatgt aactcgttgc 120

agtggctgtt gcggcggttg tggcgtcgtc gtcggtagtg gtggtgatga ttctggaggt 180

tgttactatt cgtgggtagg cgagtcttgt tactgtgttt cgttctcttc atgtttgtgg 240

tatggggctt ggttttcttg tgcttcgtcg cagtggtgct aggaattcta agagtgttgt 300

tagtattgtt gttgataggt gtgttgntcg taatcgttct aagaatgttg ntaggggtgc 360

tagtggttct aatgttggta atgtt 385

<210> 39094
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-B10

<400> 39094

tttgggctgg tttctgtgct tgtttatgtg cttgtttatg tgcttgaagc cacacggtcc 60

ggctccgcgt ctgcttgacg agtacggttt ctgtcgttgc ttcttcgtcg cgtggtggtg 120

tgcggtcgta gtaggtggtg gaggtgtgtt tttattatac ggatattgat agtagtactg 180

atacggattg tggtagtgat gatcctcctc ttactgcggg gcatctgttg gaggattcga 240

tgtagtatga ttggtctgct aggtcgcctg aggagcgggc ggttaagcat tgtaaggtgc 300

atggtagtcc tgaggagaag tcgtgttggc ctgaggcgcc taaggataat tcgtattata 360

ctgatgaggt taataggaag gaggctatta gtcatcggtc 400

<210> 39095
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-B11

<400> 39095

gacctttggg ctgctttatg tgcttggcgg gacgttagct aatccacagt cctcggtggg 60

acgttactac tttatctagt catagcgatg agtatcccta gcggtcgcgg gaacttaaga 120

aggtccctgc agcgtaatac ccgtaatcgt atcagctccc gtacgcgcgg ccacgtacga 180

cgtccccgga gcctggccat acgttggaaa gtaggtagag gcgtcgaact aaaccgctca 240

cgagtcgtta gaggaatatt taccactaga gataaagtta tcgtgcgaaa cttccggata 300

catcgccttc taggctgcgg ttggccgtac ttccggaact tctacggtcg ctgccacgtc 360

cccgctctct gggaggctcc agctaagcgc cgcctatttc acactctgtc ggcgacggtc 420

ataaagtaca aaaatacgac ctctttac 448

<210> 39096
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-B12

<400> 39096

tttgggctgg tttatgtgct tgatctcgta ccgtcctcgg tatcactagg cgacccatct 60

cggacgcggt ctcgcgtagg gctcggtagt cctcgcaacc ttaagcggca ccggtcttcg 120

cctcgcgagt tatccagtac cgatcacgac atatcgtaga tcaccacggt gtacgagccc 180

tagtcacccg atacgcgtta gtagtactca acggaaagcg tagtagatcc atcagaccca 240

tagagactcc accagtaagt cgtaggactc atactcgaac ggaggcgtat gtccatcagg 300

aatcacggcc acgctaccga ccggtcaagt cagtacgacg ttatccgact accatctgac 360

gacac 365

<210> 39097
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-014-Q1-K1-B9

<400> 39097

tttgggctgg tttatgtgct tgtttatgtg cttgtgttcg cgtccggtac gtgcgaagtc 60

gacactagaa acaagacgac cgtcttattc tcgctaaatt ccgaaggccc aacgctacca 120

gatgatcccg atgacgtcga aggtggtctt aagtcggaat gacctctatg ggagatgtcg 180

gacttactac cgctacggaa ggatgcggag cggtctaagc ttactattag ttcgttgacc 240

tcgtctaagg gtactgctat tgtggaagat gtgaggaagg ttgcggaggt gggggtggtt 300

ggtccgactg cgcttaatta tggtgtttgg tagtcggatc acgtgttggt tattactctg 360

gtgtctgaag aggcggccaa ggtggcggtg gnggtcgcgt tggcgtcggc ggatggtggt 420

gcttggtgtg 430

<210> 39098
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-C10

<400> 39098

ggttggccct ttgggctggt ttatgtgctt gtttatgtgc ttgtttatgt gcttgtttat 60

cgtgcctggc tgtctcctga ggttactcat gactaggtgg tgtttatgga ctcgaatttt 120

aatttggaac ttctttttat gcgtgcttct gttagttttc atgctaggtt ctctcctatt 180

cctgtagagg ctgatgataa tggtcattat aattagatcc cttttactat ttattttgat 240

gagcatagtt ctcctcctgt taatcgtgtg ttggagatta gtgctagtac ggaggcttgt 300

attgatacgc ataatattaa tttggatggt attagggatc attctcttgc tggtacggtt 360

ctcgctttaa tgactcatgt tcctcctgtt gctcgtcacg ctgc 404

<210> 39099
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-C11

<400> 39099

tttgggctgg tttatgtgct tgtggatgtg cgggtggatg tgcgggctac gcagttagtc 60

gtgttaagag ccttaagccg tcgtctagaa tcgtcgggcg aagaagggag gcgtacctat 120

cggcgaaacc agcgtcgaaa cgtctgctaa ttccggtgcc tttcgggcta cctccggata 180

tctcgaaagg agagtctcgt cgggagaact aaacgagccc gccggagata aggccgtccc 240

cgtctcgctc tagggatcaa aggctaccgt acgcgccggc gagatttccg aggagaggga 300

ggtcggccta attacggacg ccgccgtcgt ataaataaaa gtaaccgtcg agaagactaa 360

ggatcggagt aatgccgcct ccgttcacga attagctcgg gtcaccggaa tcggtaa 417

<210> 39100
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H4

<400> 39100

ctgatttatg tgcttgaaaa aaaaaaaaaa aaaaaaaaaa aaacccaaac ccaaaaaaaa 60

aaaaaaaaaa aaaaagggga gggatgaccc aaaagaatat acaacaataa atatgaatac 120

ttaattatac agtctaccac acaggggtat ttaaaccgaa gttatcggtt gcttccacta 180

tatatccgaa atcgacaaaa ttttcgcggc cttattataa acggttcctt aggataccgt 240

tccacaagtt accgttggaa aaatttacag gtt 273

<210> 39101
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G10

<400> 39101

gttcagtccc ggagattcga attacccgac cagcgtaata acgagcggag cgatcggtca 60

gtcttgtcct ttcggatagt cgaatctgga ttcgtgtaag tctgtagcta attcgacctt 120

gcctttctgt tcgtatcctc ccacggctgg tcccgtgtta tctattctgt gcggtctgta 180

gtagcattgc gtctctatcg ctttcgagtc aatttagtag acgcgggacg ttaagaatac 240

gacgcgcgtc gtcgatttgt gctacggttg tcactctata gtactcgtta cgccttgcgg 300

aaagacgagt attaaggagg cggatgagta aacgactaac gcttagaata agaatctgct 360

tcatcctgcg gagcggactt ttaataacgc gaagcttagc gcccgcgaca cttt 414

<210> 39102
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G11

<400> 39102

gtgttttgag tttagttgta tgtaggggtg gagcggtcgt gagtggtggt gaggcacggg 60

tacatagtag tagtagttag cgggtccttt tggttcgctt cggaaacgat gattttggat 120

attgctcgat tacggcaaaa tcggcagaag taataaagac gtgcgaggaa tagacgaagg 180

ttgaagtcta tctagggaga agtagtgtcg tagtagcagt ccgcaagcgg cgccaagacc 240

gcagtctccg tcactagcgc caactgccta ccgctaggcg gccgtccacc gctggtcgta 300

atcgacgttg cgcatctttt gacgtaatac gctggcactc gatcatcgaa cccgagatgg 360

tcctccctgg acgcccctct aaaaaaaaaa aacaaaaggg ttggttg 407

<210> 39103
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G12

<400> 39103

tttggtctga tttatgtgct tggctcagcc tcagactgtg agtggttgcc tgttctatcg 60

gcacgcttcc ttgcgccttc gatcgcggac gctctggccg ccgattctat tgctagaact 120

gagaaggggg tt 132

<210> 39104
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G2

<400> 39104

ggacctttgg gctgctttat gtgcttgttt atgtgcatgg ttatgtgcat gttcacatgc 60

ctgtggatgt gcgggtcgtg ctgtgtctac gagttagttg ctttttcagc gtttgtttac 120

ttgatagttg taggtcctca gtccccgctt tagatggtag gttgttattt gttaggttgt 180

acttggtgat tgcttggttt cgatgtggcg atcgtgactc ttcttgcctc atgcgtgtta 240

tttcgaactg gcgaggtgga cattcgtaag tattgattcg tttcggcctg gtggactttc 300

gagagttcac tcgttaattg gcctagaaat ctttgacttg tatgggttaa ggttgacctg 360

tgtcttcgta attccttcgt gtgcataata gtcagtgaca aatc 404

<210> 39105
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G3

<400> 39105

ggaactttgg gtctgtttat gtgcttgaaa aaaaaaaaaa aaaaaaaaaa aaaacccaaa 60

ccaaaaaaaa aaaaaaaaaa aaaaaaggaa aagaaaaaac aaaaatcccc ccccccccccc 120

caaaaacaca acaccaccac aaaaaaaaaa aggggtggtt ctcccaaagg atttaagtca 180

atgcatgtgg gtccgtaatg caaaattcac ctaacggggt tattaaaact aaacctatgg 240

gttgctgccc aaaaatgcga gaatgggaaa aatttcggtg catttaaatc aaactgttcc 300

gaaaaaaact tttccccctt taatcggtca aaaattaaaa aggtttgaat taactgttcc 360

ctt 363

<210> 39106
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G4

<400> 39106

ggacctttgg gctgctttat gtgcttgttt atgtgcttgt ttatgtgctt gttcctgtgc 60

ctgtcataag acaatagaaa tccgcgaccc gcaacccgac actaagtccg cggacgggtg 120

aatttctagt ggatcctagc gtcgaagacg ccagcagtac tctaggcttc cgttataata 180

tccgcccaaa gttccgccgt gagtacggcc gcgtccgccg ggaagacgaa cacgccgaag 240

tcgcaacact ccgcgggtaa gacgacccgg tggccgagga aaccggaact gtctccatag 300

aagcgatgat gactgcctcg ccggtggccg atgaaaggct aggctcgtac gaagacctcg 360

acgatgacca tactgacgac ttaacctccc tctcggaact cgacctaatc gacga 415

<210> 39107
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-G5

<400> 39107

tttgggctgc tttatgtgct tggcccattt gtaggtaccg caccaccggt cctgcataca 60

tccgacggaa tgttgggacg ccgtcatcaa aatcgcccca cgaagaaata cgccggtcta 120

gtagtgtacg tagtaagtca cgacggtaaa taacgtgggt aacaatccat tcgattgaag 180

cgtaagggta ctcaactacg taagcagcaa tacgatcctc gataattagc tctactaagt 240

tctttaacta gccggcgtcg taagcctcta cgacggcggc aacgcttaaa gataagactt 300

ggaatgactc attttcgaaa gcggtataaa cattagttac gactaaagct aatagagcct 360

cataggcgtc gnaggtctat aagccttgtc cagatgcaac agtggatacg ggcgggcaat 420

cctcgtaagt agcgtacccg acgtcgtaaa agatacaacg 460

<210> 39108
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G6

<400> 39108

ggacctttgg gctgatttat gtgcttgtaa gatcgaggtc atacgaggtc tacgccggcc 60

tcctcgagct cgcggcggag acttagggta tatcggatta agtaaaagtc gtttacagtt 120

cttcgtaagg tcccaccagc gtaaatagtt ggtaataata gtagtttcac ctcctccgta 180

cgttatccca tttaaatcgg ggacagtcct cggctctacg gctgcgctag aggaaaatag 240

aactagtagg gcccggtacg cggtcgcaga ctctagatcg tagaccactc gcaatgacga 300

cgccgccgaa ggaggtcgcc caatagcgta agtaagacaa tccacatcca cgttccagga 360

taagcaacac cgtcccttct cgacgaaaa 389

<210> 39109
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G7

<400> 39109

tggctctgga cctttgggct gatttatgtg cttgtggtca tggccctaat tcggtcgctt 60

ccccgactat tactgctatt tcggaagctt cgtctcggat gaggcggaaa aatagtattg 120

gccttatggg ggtacaccag tcatccaatt gacccccaca ggcgcccgcg acggctagcg 180

aaggaggcct gcacctcccg cctgaacacc cctgtgcgca cgtagccgca acgcttgtac 240

ccgtcgtgcg acgcgcgtac gcgctccgga tccgttgcct tgacgttccc cgcgtcgtct 300

ggaacggaga cggaacgacg acccttgttg tacccttac gtcgtgaacg gcggcagact 360

cggcacacct cgccgcgaca tcgcgatcga tccacggcgc gcccggccca cggagctatc 420

tcacgtccca cgaggc 436

<210> 39110
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-G8

<400> 39110

tggccttgga cctttgggct gatttatgtg cttgtttatg tgcttgttta tgtgcctgac 60

ccccccctagg gagtaaaggc atactagatg tagagttcaa tagcaaaaaa gactaaccag 120

cgccggatac acgcgctaca cgttccgagt aagagcataa cgtcgccccc gcgttgcaag 180

caccgcactc cccttagaat ccgaacgtct cccgccgaga acgaagtaat ccgacccctc 240

tcacccccctc accttcccc ctttacaacc ttaaacacat caggtaatac cacggcccct 300

acacccttcg cctatcagca gccctccgac cacctctcca acggtccgtt ctacaatcng 360

acagaatccg aacatcgtca aggttcctcc cggacgccta gcatcaagga atcacaacct 420

cag 423

<210> 39111
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G9

<400> 39111

tggtggcggt cgcttatccg taccacagga gtactcatga ggagggtgat gtcgctaagt 60

catggaagtg tcatggttgt ttcccggccg actcctagac gaagacgcat caccatgagg 120

ggacggagtt ccggagtttg aagaaaaaga cgttcggtga cgcgttggag ggagttgcgt 180

cgacttggga atatatagtg atgattaatt cgcctagtcg ttctcggcct aatgaggcga 240

attctcctat tttatgtgat tagactagtc ctggtcatgc ggtgtgtagg tctggtgatg 300

tctctgagtc tcctacgcct tttaatcgtg agcataatct gtcgcctgct tcgtataggt 360

atatgaggga gtatctgct 379

<210> 39112
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H1

<400> 39112

ggacctttgg gctgctttat gtgcttgtat aaaaggacta aggacgaaac cgagtccggt 60

aacggttcgt tagacactag aagtatctgg taacgctctt aggtagcaaa agatgttggg 120

cccgaggccg cccgggacaa ggactccgtc gaagacctct ttccgttccg gcatccgttt 180

ccggacttaa gttgacctct ttcgagcagt ccttgcccga ttctcgcggg atgtacgacc 240

atttgtataa cggctaaggt ttcggagcat gccggctccg tcttgtaggg tagcgagagg 300

gctctcaacc cttcggagaa ggtcgtagaa gggtcggcag agggtggaaa gaaggagact 360

cctatgttaa cgcatcctcc ctccgcctgg aagttctcct cggaacgagt ctccggact 419

<210> 39113
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H10

<400> 39113

cagcggcaga ctgtgagtgg ttgtcctgtc cctcggcacg cttccttgcg ccttcatcgc 60

ggacgctctg gacgccgatt cgattgctag aactgagaag ggggttcttc acgaggacac 120

taagaaagtc accaaggtcg tccttgaggg cttatctaag ggcactacgg gccacgcgga 180

agaggactcg gccctcattg atccttccgg cgatagtagg ctgagtactc ctgatgttaa 240

ggttgggact gtctcgaatg attatcctgc taagtctgct ctgcggcatg ataatgagcg 300

gggtcatagt aattgtgctg ctgattcgac ttgttatacg cctaagattt agcaggggcc 360

ccctttttc gtcctctacg gacggccgtc gtccgcgcac gttgagaaca aacgcgga 418

<210> 39114
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H12

<400> 39114

ccctcacatc atatgcgtat cgggcacgaa ctttagccga gagagtgcaa gaagcgaata 60

cagtaattag cacgaaatca tccaagccga cggaagagta acctttccgt cacgatcgac 120

tccctactga aacgtacagt acaagtcacg cgatcagaaa aaaatggaaa tactccac 178

<210> 39115
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H2

<400> 39115

ttggaccttt gggctgcttt atgtgcttgt ttatgtgctt ggggtacggt gctgtcgtag 60

gattcgtcgt ctctgaataa tttgtcggat ggtggttcgt tgtagcttgg tcgggggggtg 120

tcggtgggtt cggttatgtc ggattcgctt aatgctggtt ctgcgggtgt tacattgggg 180

cttacggtgg tttcgatggg gtcttggcct tcggtgtcgg attataattg ttcgatgggg 240

gttgcgttag ttgagtctgt ttggtcgttt agtactggtg tgtcgcattc gaatggtaat 300

aattcgatgg ggatgtcgga gcctctggtt gggcctcatt agtgtacggg gtggtggcct 360

gtgctgcggg ataattttgg gtcgcgtcat aatgctgtgg ttgcggatgt ggcttatgtg 420

ttgctgggtg cggcggcgcg ta 442

<210> 39116
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H3

<400> 39116

ggaactttgg gctgctttat gtgcttggta ggcgtatcgg tagaacggtt cccgaccata 60

tcatatcaaa gttccgccta gcaacgccca accctacacg gaccgcggac cgaaaaaaaa 120

aaaagaaaaa aaaaaaaaaa aacaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaat 180

gacgaaatgg acccaattca atccaagaag cataatgaca atacaaatta cttaagggtg 240

ttcacatacc caccaaaggg agtggcaaga catcgtgaag actcccaacg aatacaccga 300

caagccaaat aaaaaggcta gtatcaaatc taacgacgaa caataggata gtaaacatca 360

aagctttaat a 371

<210> 39117
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G1

<400> 39117

ggacctttgg gctgatttat gtgcttggcc agctcgacgg catgcgtcat ctggccaatt 60

gcagcaacct cagagtcaac atgcgtaata aattttgatc cttggcaggg gtgtacccac 120

cagacaaaag gtcgatgtgg gtctcgtttg ttgacttgac gacctacgac aatccgattg 180

actgtatggt tcctgcgttg gtgatgtact acctaaaccc tcgtttcact aatccctgac 240

ggcaggacag gggttcatta cggcggcgat gggcgatgga gaaccagggc ctgaccttgg 300

agagggagtt cgaaaaatgg tcattatact taaggaaagt agtaggtgtg taaaccattt 360

aacttcgata tggggaggca gcgataacca acaataacat tgggtgtgcc agcgctcggc 420

aaccggaacg agcataactc aaactttcca a 451

<210> 39118
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E5

<400> 39118

ccaacaccga taaaggatga gctcgaggtc cttataccac tgtgctgttt ccacccttcc 60

ccccgtggta cctagttcct tcgcccacgt ctatttagaa atgtcgttga tagcaaaaga 120

cgtcgtcgac taaccgagcg tttgagcgtg tcatactgta tcggactcta atagtggcaa 180

gacttccgag agccactgtt ttcaaaaatg ccacataacg acgagtatca ccgaagcctc 240

gtcacgtggt atggatctac 260

<210> 39119
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E6

<400> 39119

tttgggctga ttatgtgctg aggaatcgtg gaccaagagg cttacccgag cgttagttac 60

cagtaataaa actgtcgaca ctttcttcga cgagcatctg cggtgtaagc atggatagaa 120

gttaaccaac ggccttttat atttgatggg ccatcataaa cgtagtattg ctaggggtcg 180

cttagtaagg aagtatgctg agtgacgcgc agatgatttg gtgacgtcaa ctgcgataca 240

tgaacgtgag tatagctata tttagtcgtt agtatagatc gtttagattc agaagactag 300

caaactgctg tcttacctcg gaagtgtggt gagtacgttc ccgtattcag acggttacgc 360

agaactctaa gttcctgacc cctgaccgta gtagtagtaa cgattac 407

<210> 39120
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E7

<400> 39120

tggctctgga cctttgggct gatttatgtg cttgtttatg tgcttgatag atgaacaact 60

ctcctcctat tctatcaata ttagtcagta atctccctct cttcgtaaca acggttgtct 120

gtcttcttct tctttagttg tagtcggctg tggtggtggt ggcttcggta gtggtgtcgt 180

cgtcgtcggt ggtgggggtt gggatggtgc tggtggtggc gagtcgtggt gaggcgatgc 240

tgctggcggt gttgcgttct gggcatgtga cgggtagtgt ggtgctgttt cttgtggtgc 300

gtcgtagtgg agcgtgtctg tctaatagtt gtgtgctgct ggtggtggat tggtaggtta 360

ttcgtaatcg ttctaagagt acgatgggtt ggtctggtgg tggtgctagt a 411

<210> 39121
<211> 483
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-E8

<400> 39121

ttggccttgg acctttgggc tgatttatgt gcttgtttat gtgcttgtcc cgtcacatgt 60

ccccaagtat accgcctaaa ctcccgatga ttaccactaa ctatttcgtc gagaccgcga 120

acacgtccgt taagagttcg ttcggaagtg taatgcctcc ttctatgccc gccgtgtcga 180

agcctccggc cggtcacggt tccgagtctc tctgttcggc cttctctact acccccttatt 240

cgaaaaggaa gcattcacgt aagatggagg aagaagcgag agtggtacgg gtcttagcgg 300

actcgggaca caatattagg gcattaaacg atacgtctac tgtaatagcc gcctcgcgtc 360

atctagctac cgtgttcccg accaccttgc ctggcgctgt acatcccgtt tctggacggt 420

ccacagtang aaactagact tcgagagccc atgccttcag tcatgagagt catggatgaa 480

cgc 483

<210> 39122
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E9

<400> 39122

ttcgaatggg tatacttgtc ggggtcgggt ttacacgaat tgtgcttgga atggtgagtc 60

gcattgtcat actcgtgata ttaaaggtgt tcctgcgtag ttcgtccctc atgaagtccc 120

tgggtcgatg gcggcccgag ttacgattcg tggttcgttt atgcccgtta tagttcatgg 180

tggcttggtt gagactactg cgtatggtgc gctcggtcat tatactgatt tccattaagg 240

tgataaggtg ctggtttcgt ctgcggatcc tcctg 275

<210> 39123
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F1

<400> 39123

ggacctttgg gctgatttat gtgcttgttt atgtgcttgg cttagctaag taaagcgcca 60

gcgtaagcgt caagactatc gatttacgtg aggccggcga taggggcaat agcggaagac 120

gtaggttcag tataagtagc gatactagtg atgagagcct acgtagcagt acgagtagta 180

tgaagttcta taaggtgaat gacctgtggc gggaggtgac ttagatggtt agagtcagag 240

atgggacttc cggattgagc taccctaggt cgtcgaagag atcaggtctt agtgacaccg 300

gtagtgcgca ctctctggaa tcgagcggga ttgtgagtca ccctgtgacg aaggctacgg 360

ataaggtact atccgtaggt tggaaaaagt cgtcctgggt ctaaatagag aaggagaccc 420

cgtaac 426

<210> 39124
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F11

<400> 39124

ttcccggacg aatgctagac gaagacgcat caccatgagg ggaccgagtt ccggagtttg 60

aagaaaaaga cgttcggtga cgcgttggag ggagttgagt cgacttcgga atatactagg 120

gatcattaat tcgcctagtc gttctcggcc taatgagggg aattctccta ttttatgtga 180

ttagactagt ccacgtcatg cggtgtgtag gtctagtgat gtctcagagt caccgacgcc 240

tttt 244

<210> 39125
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F12

<400> 39125

attggtctga tttatgtgct tggatgttca gtcccggaga ttcgaattcc ccgcctagcg 60

taataacgag cggagcgatc ggtcggtctt gtcctttcgg atagtcgaat ctggattcgt 120

gtaagtctgt agctaattcg accttgtctt tctgttcgta tcctcccacg gctggtcccg 180

tgttatctat tctgtgcggt ctgtagtagc attgcgtctc tatcgctttc gagtcaattt 240

agtagacgcg ggacgttaag aatacgacgc gcgtcgtcga tttgtgctac ggttgtcact 300

ctatagtact cgttacgcct tgcggaaaga cgagtattaa ggaggcggat gagtaaacga 360

ctaacgctta gaatatgaat ctgcgtcatc ctgcggagcg gacttttaat aacgcgaaac 420

ttagcgcccg cgacac 436

<210> 39126
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-F2

<400> 39126

ggacctttgg gctgattagt gcttgttagt gcttggttat gtgcatggaa cgagagccga 60

agaagcacac agtcggactg tagaagcagg tagtaacctc catccgaagt cgtttactcg 120

cgctaagagg tcgggtcaca cgattaagtc gaggaaacgt ataaacgagc atgagttccc 180

gttacggtct ccgagataac aaatacgcgt ccgctcgacg tagatcgcgt tacgatatgg 240

agcacgccag atggtgagag ctacgtcgtc gtttcaatct acctctgtag cgaaacgccg 300

gagatagtca gagatctcct ccaagttagt acctaagaga aggattcgag ccacgagtaa 360

tatatcgtgt cgagatagtc ngcaagtccc tattacacgc acaggtcagt cttagtc 417

<210> 39127
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F3

<400> 39127

ggacctttgg gctgatttat gtgcttgtct acccttaccc gttctgtctg ttccctcttc 60

tcttatctta tcttacctta atgtagtggt tctgttttgt cccacaggtt gttgtttgtg 120

ttatactgtt attgctctgt attgctgtgg ttatttacct ctctctgctt actgtactgt 180

cttggtcttt agtgtaactg acttacttgc tttcaggcgc gtcctagtca cgtagcctag 240

tagtgcgtcc ttttcagagg gaaaagtgcg cacgagttta gcgaggaaag gtagcggagg 300

ccacgggagc gagaggacga ggactaatcg gcgtagtact aggtgtaata cggtatcaag 360

gaggacgcgc cctagcgtaa ggggcgtcgt gagtagta 398

<210> 39128
<211> 347
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-F4

<400> 39128

ctttggctga tttatgtgct tgcctccacc tcccagcaca aaaagacaca catccgctcg 60

aaaggntcga gtctcgtagt agggttagac atcattgctg cagatggggc ggacgtgcgt 120

atacgagtct cgtcagatgt cattcttcga gaggtcacgt tcctactgga gagggtacct 180

tcgccgttat cggcgtatct cacgtcgtca agcattggta cgaggcgtct aaggagctcg 240

gtttcgacgg gtcagacgct atacgggttc gtatcgatca aggcattcta aacaacggtt 300

agggtcccca gcgctctagt acggtatact ccctgaagtc cgtcacc 347

<210> 39129
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F5

<400> 39129

ctttgtctga ttttgtgctt gaaaaaaaac aaaaaaaaaa aaaccaaaac acaaaaaaaa 60

aaaaaaaaaa aaaaagaaaa gggaaaaaca aaaaaaaaaa aagggaaaac acctcaaacg 120

ccttaagtcc cactatccta cgaacctaat ccaccaccca cttccctcga gaatttccca 180

cccaaccgtt cgtttccccg ccccacattg ctcccctcgc aaataacctt cccggccatt 240

tactcccccc ctcccgtact atacatcctc ccatttactc ggtccccca 289

<210> 39130
<211> 333
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F6

<400> 39130

tggcttgcga cctttgggct gatttatgtg cttggtgtcg cttaagggtg ctttgcctat 60

gcctcgctac ggtcgagtct cccggtaagg ttataggtcg tcgttgcgga tagggcggcc 120

ttacgtatac gcctctcgtc ttttataatt cttcgggaag tcccgttcct actggaaaag 180

gtaccttcgg cgttatcggc gtaattcccg tcgtcaaaca ttgctacgaa gcgtctaagg 240

agctcggttt cgacgggtcc gacgctatac cggtgcctcc cggtgacggc attcgcaaca 300

acggttagcc tcccgagcgc tcgaatacgg tat 333

<210> 39131
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F7

<400> 39131

ctttgggctg atttatgtgc ttgtaagcaa tttatttgtt ctttttctcc cccctgtttt 60

tcttcttact tacggcgtga agaaagcgca agtacttaag tatcccgctg gaggagaggg 120

aaagagagga ctaactaact aacctgcttc aaacccaatt tcttcaaaaa ttatccacac 180

catcatcccc acccacacaa acttgctttt actttaatta cttgttagtt tatttgtttt 240

gttcgacttg ctttagtgac cgtcacgagc ccaggcgacc ccattataga ctccttctcc 300

cccccgagca cgcaaacaaa gcccgaggct taggtctgct acgcaaacct gggagtgagc 360

gaaactgggc atgcaggaac caggagtaga gggataagaa ggttcggtcg tccggtaata 420

gtaataag 428

<210> 39132
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F8

<400> 39132

tggccttgga cctttgggct gctttatgtg cttcgttata aagtattgac gcgacgcgca 60

tcccacccct attattccac gcacgcaacc gctctgtacg ccacactaag agaagcatct 120

caccttcaaa aaaaaaaaaa aaagggtggt tgtctcagag gacttaagtc catgcatgtg 180

cgtacgtgat gctacagtct cctcacagcg ctattcaaac ctaacctatc ggttgctgcc 240

ccataatgct gcgatcggga aaatttcggt gccatttaat ccaactgttc cgtagtatac 300

tttttccctg ttagtcggtg caacagtgaa gaggtttgta ttgactgttt cctttaatag 360

ccgtgtagtt cgaacggtga acgggatgtg tttcgcagtg gtgtaccaag tgtggtgggc 420

gcggcggcca tgtgtagtgc gatt 444

<210> 39133
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F9

<400> 39133

ctgtaaaact cggacgtcca cgtcaagtct ccctacctat ttcagatctg tgtttaggct 60

ggggtcgctc tcgtctctca gggtcgggcg acgctccacg acgaatgcga ggccaacatt 120

ttcgagatag atatctcgga tcgtcgacca tagtttatgg ctattcaaca ccataatcgc 180

cacttcactg acttcccttc aacatcacct cggaacgctt attggtctaa tctcgttggc 240

agatatgacg c 251

<210> 39134
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E4

<400> 39134

ggacctttgg gctgcattat gtgcttgttt atgtgcttga ataccccgcg gcgtcagcgg 60

tacagacgct aatagaaaca aacggggcaa gggactcact taagaaaacg aggtctaagt 120

cgggggtcat cctcgaattc gcgaaattac cggagaagtt cctagccgga tccgcgaagg 180

acgattccgc gaaattacta gagaagttcc tactcggatt cgcgatgggg gaattcgcaa 240

agttattgga gaagttccta gtcggattcg cgaaggatga gttcacgaaa ttactggaga 300

agttcctcgt cgaattcgcg aagaatgaat ttagcgagtt agtctcagtc ggagaaaata 360

actgagtctt tagggcaagt tagatcataa gcctcttaaa caacgtaggc accgacgtat 420

tagcagctaa gtacgacaat 440

<210> 39135
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-C9

<400> 39135

acctttagcc tagaaccaca ctctcaaacg aatcgaacag gaaggagttt ggttccccca 60

cggaaatatt gggactccat acggaattaa aaattaacgc cggtggcagg ctactcctat 120

aaagtaacgg ctgtggacta tataagctta ataagtgcga aaagtctgat cctaactact 180

caagattgaa gaaacgaaaa acggcgcctg agccagtctc cgcatctcgc ccgcagtcgc 240

atttaaccgg ttactcgtcg tgcctcgctg accacactca gagagtcggc aattacgctt 300

acgcgattac gcggtacgta cctccagcga gaccacgcgg cgacaactac cccctccctc 360

accgacgcgc ctcatct 377

<210> 39136
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D1

<400> 39136

ggacctttgg gctgatttat gtgcttgggt ctaccaaact agccacagcc cgcccgacgg 60

catgcgtcat ctggacaatt gcagcaacct cagagtcaac atgcgtaata aattttgatc 120

cttgggaggg gtgtacccac cagacaaaag gtcgatgtgg gtctcgtttg ttgacttgac 180

gacctacgac aatccgatgg actgtatggt tcctgcgttg gtgatgtact acctaaaccc 240

tcgtttcact aatccctgac ggcaggacag gggttcatta cggcggcgat gggcgatgga 300

ga 302

<210> 39137
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D10

<400> 39137

taaaaaaaca ccgggtagcc gtccacgtca cgggggtagg ggagttacct cttacgccgt 60

tcatagctcc cacttcatca ctatattaac tcaactcatc cgaggcactt taggtctagt 120

cgatcaacga agttgatgaa aagtccccga cccaactaac atacccacac atctaaccta 180

aggatacctc aggaactcat cggatcatac cac 213

<210> 39138
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D12

<400> 39138

ctaacacgat catcggatta tcgtagcggg agccgtcgta aagggtgagg gtcatagata 60

attacgcgcg tcgcgtcctc ccgcgcgtcg gcgccttacc ccttccaatc cctacccggt 120

actaccccgt tagccccacg tcccaaaacg ccaactgatc gcccggcgtt aatcgcccag 180

cgtaatacgt ggattagtct gagacattag cgtaggccac gccgtccggg gatatcttat 240

ctccgccgga ttcgcaagcc gattcgagac ccttacccat ctcttcccaa cctcgctagc 300

gattaccgtc cactcagtcc ctagatcgac atcacgt 337

<210> 39139
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D2

<400> 39139

ggacctttgg gctggtttat gtgcttgctt aatcggtgac gtaaagaata tccgcgaagc 60

actcgaccaa gaggaatact acgggaacac acgacgcgga catatgcgtc acaatatgaa 120

gaccaagaga agacggcagc tccaccggcg ctccgagcat cgactagctc tcgatagata 180

acgagccgcc agaaacggtt taaaagcgga aaaccgccgg agccgacccg accagcggcg 240

ctatacgcga cgtcttacac gaacggctgg ataagatcga cctagaacgg gagcccaaga 300

gggacttgct aagcgaaatc ccctacgcgg ccgttcatga tcccggcact aagtacaaca 360

ccccgagatg accgatacta cacggacgta aaacaata 398

<210> 39140
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D3

<400> 39140

ggacctttgg gctgatttat gtgcttgttt atgtgcttgc gtaaaactta ttccccacgt 60

tcgtaactac gatcttcggc ggcgtgtccg actctgtaat cgcatcatcg ggaaactgca 120

caactcctac cggttaacac accaatcttt aggcggttta atgcgcgaca ctatagtccg 180

caatatccgt cgttactgac gaagaggtcg acacctcgac acactccaat cgtttcggcg 240

gaagctctca cctgactcca gtgacccacg accgtacgct tcggacaaag tttaaagccg 300

ggatagcgcg tcccggcgcc gccgtcagct aagtagtaac cacttccgta agcggtgaga 360

aaggaacgtg tcacgtaacg ttaaacgt 388

<210> 39141
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D4

<400> 39141

ggacctttgg gctgatttat gtgcttgtgg atgtgcgggg cctaatacca cgtccattaa 60

cccaaaaaca gagtctatac atccgtacgt acccacgccg ccttcaccga aagaacagac 120

aacaaaataa ggtcacgaaa cgacaggggt aacacggctt acccgtccgc gaggcgagaa 180

acaaaagaac gaaaaacaca gaccagcgtc gcccctcgaa cctacccgac gaaatcggcg 240

ccgcctcccg aaccgcccaa aaatgagcgt caccccttcga atatcactct aaatcagcgc 300

cgccctacgg acctttttttc cgctggagaa gaactcctac cccaactatc gactccatta 360

cccagaactc aaaatccgac tacgcagcgc tctattcact agcctctacc acgtctcctc 420

ccccacgtcc tagagcccac accgtcaaac acgagcaaag 460

<210> 39142
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D5

<400> 39142

tttgggctga tttatgtgct tgatcccggg gaatagacac acacataaac cacctagact 60

ccgcggtcgc gtcaacgtac atcggtcacc gtctgttcat gcttcttttc tttttactcg 120

ttacttaaga gtcctacgta atcgcctaag cctcattatt ataagagagc cacatcctaa 180

taccgaggaa taatgcatgt ctatgcgtcc ggggcgtcgg gaccggccgc agtccttgta 240

cagaatgtcg tcgtacagcc aagaaaggcg gcggtattac cgactccgaa ttatgttcca 300

gctatatact agtcgcggag ttcatat 327

<210> 39143
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D6

<400> 39143

tttgggctga tttagtgctt gactacagcc aataagctca atgaggatcc gaagtattcg 60

aaaggaacaa tagtgataca caggacgatg agcaaatcct tagctaggta tctcatacac 120

gcactaggga ccccatactt gccgaaggcg ccctccgaag gggattgcac atgtcactca 180

ctagaagacg actaaatcaa gccgcgctgc gggctcatag acaagaccat cgtaacccat 240

cacgatccgg ctctcgaagc cgctatcgcg gtaaggaaaa ttgagctcct gacgtaaaga 300

tcgtgttaag gcctataaag gtgagccgga gtcagcatag acgttctata caatactaca 360

ctcgacatag ataagactcg tacgtagtca ctctccgaca cctaagagca tgtatgaaat 420

tcctgcgtga caggaacaga tgtgagagag accgaccttc a 461

<210> 39144
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D7

<400> 39144

ctttgggctg atttatgtgc ttgtccgagt caaaggaaat ctctcttcga ccccgagcca 60

ccgaaacact gaatctacac gcagacgccc tgaggtagac accgacaata gcggccttac 120

tgatcacgga gagccttcag tcgtaatcgc atactcgaat aaagctgagt gagatgataa 180

ttctcctgta gtacctctac atcccgacaa agatggtagt ggacacacca tctacgacga 240

gtcataaaaa gtacgtcaag aacctggcac agaagacgta tattcagaag acactactta 300

cgatgccgac taggataacg acggctggac tgatcataat gagcccgcaa taacgacgta 360

gaagggaaac aatttatcag ggaaaaaggg gtatcgttag acgagtcccg gctccataga 420

agtaccgaag tccggtcaaa cggtacgact a 451

<210> 39145
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D8

<400> 39145

gcttggcttg gacctttggg ctgatttatg tgcttgggtg gagcctaggc ctgcggttgg 60

tggcccttgt atttgttcta ttcctcatag tcttcatcat tatattaagg ctattgatgg 120

ttctctgtct cgtggttttg cgtcggatta ggctaaggcc gcgttcgcta aggtgcagcg 180

aaacgtactg tgagagtgtt gagcgatggc tcgtctcgtc tgatgctcgc agtcgcgtct 240

tctgcgacca ggagtggtgg gccgtgaaag cgcggctgaa cctcggattt ccaggaacgc 300

gactacggag cgtcgagtcg cgtgacgcgt cgcactgaaa cccagctgac tacgcgcctc 360

tcatatgccc gtaacccgtg cccctaactt ggcaccga 398

<210> 39146
<211> 307
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D9

<400> 39146

aagaaggagg cgtacctatc gccgaaacca gcgtcgaaac gtctgttaat tccggtacct 60

ttcgaactac ctccggatat ctcgaaagga gagtctcatc gggacaacta aacgagcctt 120

ccgtacataa agccgtccgc gtctcgctct agggatcaaa ggctactgta cgcgcctccg 180

atatttccga cgaaagtgag gtctacgcta attatagacg gcgtcgtcgt atagataaaa 240

gttaccgtcg agtagactaa agatcggagt aatgtaccct ccgttcacga attaaatcgg 300

gtcaccg 307

<210> 39147
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E1

<400> 39147

ggacctttgg gctgatttat gtgcttggtt aatttcaagg cataccacga gattatcggt 60

ttagagactc gggaggacct aaaggggaag gcggacacat ctaccggcgg aaccggaata 120

ggtgggataa cactcggcgt cggttgccct tctaaggaga aaaacctcgg aaccaaggcc 180

accggcaccg agttcctcga aagcaataca tctcttggcg gaaaattcgg cttatacaag 240

acctagggaa ccggcgtagg acccgcctta aggaatccgg acagtgacac ctccgacgaa 300

gcaaccgaga cactaagcga cgaagtcgcc gagatagtaa aataaccggt cgcctaggaa 360

agaccatcgg ccggaa 376

<210> 39148
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E10

<400> 39148

ccacgtcact tcgccgtccc taacacgatc atcggattat cgtgccaggg agccccgtaa 60

agggtaaggg tcatagatac ttaggcgcgt cgcgtcctcc cgcgcgtcgg cgccttaccc 120

cttccaatcc ctacccggta ctaccccgtt agccccacgt cccaaaacgc caactgatcg 180

cccggcgtta gtcgcccgcc gtaatacgtg gtttattctg agacattagc gtatgccacg 240

ccgtccgggg atatcttatc tccgccggat tcgcaagacg attcgagacc cttacccatc 300

acttcccagc ctcgctagcg attaccgtcc actcagtccc tagatcgaca tcacgtatta 360

ttatataatc aacctcgcat tcgccgcggg ccccgttaat aactcgc 407

<210> 39149
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E11

<400> 39149

gaaaaaaaga aaaaaaaaaa acaaaaaccc catactcaaa aaaaaaaaaa aaaaaaaaaa 60

aagaaagaac caaaaaaaaa aaaagaagag attaaaaaaa aaaaaaaagg gtaattgtcc 120

caaaggactt aaatccatcc atgtccgtcc gtcatgctac aatcccctca caaggctatt 180

aaaaccaaac caatcgtttg cttacaaata atactccgat cggaaaaatt tcgaatccat 240

ttaatccaac tgtcccctat aatacttttt ccctcttagc cggagcaaaa gtaaaaaggt 300

ttta 304

<210> 39150
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E2

<400> 39150

ggacctttgg gctgatttat gtgcttgttt atgtgcttgg gtcatccttc tgctagccgc 60

cgttagtaat tttcatgcat tacatcgctt gggctgatta tacattactc cggttcggat 120

attcgggtcg ttctgtcttg tccatgtgtc tgtggatgtg ttgagctgtt ggttgaatta 180

gctggttgc 189

<210> 39151

<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E3

<400> 39151

ggacctttgg gctgatttat gtgcttgttt atgtgcttgt ctatgtgctt tgccccagag 60

tcgaaaaagc acacgacgga ctggagaatc aggtaatagc ctccatccga agtcgtttac 120

tgccgctaag aggtcgggtc tcacgataaa gtcgcggaaa cctataaacg agcaggagtt 180

cccgttacgg tctcctagat aacaaataag cgtccgctcg acgtaactcg cgttacggta 240

tggtacacgt cagacggtga gagctgcgtc gtcgattcaa cctacctcgg taacga 296

<210> 39152
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-C8

<400> 39152

cttggcctgg accattggtc tgctttatgt gcttgattga atgcatgaga atgaatccgt 60

accaacagtg tacggacggg tacgtactcg tatgcgtgta cgctttatga tgagatggga 120

ggacattatt gcgcagcata agcacaccaa caacgaacga cagcacgcat attcagggat 180

gacatcagta acggtcacag acgagggtaa atcaaaaaga gcgtagggct aatatacaag 240

acactcagac tcatctccat ccgtctgact acgtcacgat cccggcgcgg cacattgcgc 300

tccaaacgta 310

<210> 39153
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B12

<400> 39153

ttatccagta ccgatcacga catatcgtag atcaccacgg tgtacaagtc ctagtcaccc 60

gatacacgtt attattactc aacggaaagc gtagtagatc catcagaccc attgaaacta 120

cacaagtaat tcgtaggact catactcgaa cggagtcgta tgtccatc 168

<210> 39154
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-B3

<400> 39154

ggacctttgg gctggtttat gtgcttgcac aatctcgtat tttactggag atctggagct 60

gggggtgtta gtgctctgtt ctgttgctag tagtagtagt agtcgtattc ttaccttatg 120

gtccttgctg cgtgtcctgc tcgtatttat aaaggtgatg gtgatggtag ggggaggaga 180

cgaagtcgaa gtagtcggag ggttctccgg gcggttcgat ttagcctctt gattttaagg 240

catcgtcgat cgtgttattg nntattgttt tattctccgg gcggttccct ccctccttcc 300

ctctgcattt cgtctgaccc tgttctgttt aattttgata aaagggaagg ggaaaagtgg 360

aagagcactc gatccccgtt attaacggtg cgcccccccа taatgag 407

<210> 39155
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B4

<400> 39155

ggacctttgg gctggtttat gtgcttgtgg atgtgcgggc actgtcggca ggcgacacta 60

ccttcttaga aacgtcctag aagccgatac actcggtcac tagatattac ttctagacca 120

agtgcgccga tattgcctga gtacatattc ccggggcgtc ccatcccgcc gaggccgata 180

ccgagtccct agaggatccg ttatccaagg aggtatatgt taccggagaa ctctcttaaa 240

ctaagaccga ggagtcattc gaagccgagt gagtacctgc ctattcagac cctgaacgcg 300

attacaagtt ggagtaccta acct 324

<210> 39156
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B5

<400> 39156

cttggccctg gacctttggg ctgatttatg tgcttgggtt catcggccta gggatacgtc 60

ctacaagtac cgagactctt agagttgagt tcgagtatgg aaggcattac cccgcctagt 120

cctgttcagc gcccgggacg gtttaacggc ctaaacttgg tctagcgttc ggtcattaaa 180

acgggaataa aggatagtca ttttgactaa ccgcgacgcc gcgcgcccgc gggcacgcct 240

ctctcggagc ccgagtcgcg gccaccccac tgcgccggcc gactgcgccc gaaacgtcca 300

acctaggatc gcgatactct gagccgcccc aaaaaaaaaa aaaaagggtg gttgtctcag 360

aggacttaag tccatgcatg tgcgtacgtg atgctacagt ctcctcacag cgctattcaa 420

acctaaccta tcggttgctg ccccataatg ctgcgatcgg ga 462

<210> 39157
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-B6

<400> 39157

ggacctttgg gctgatttat gtgcttgttt atgtgcttgt agatcttctc ttgtctcaca 60

tttctttcat tctgttgctg ttgctggact cgttacgggg gtgcataagc atgctctgga 120

gccacggaga aggaagtaac ttgatgcgac gtggcctgcc taatgtgcgt gtcgccggga 180

gcataggtag tagttggtta ctgcttgttc tataaggttt atttgttttg ataaggtttg 240

ttgttctggt cctaaggtta agtaggggca cgccgcccat tgtgcttgcg cgaggtgcgg 300

cggtaggaag aggttcgcgt tgaagggcac cgctcacggt aagtttaagt attagggcac 360

tatttagtct aagccttaga ggaataagag actcgccgtc gaggaatggg tcggatgaaa 420

gtccggcgga tctagggcct ctaatcntca tcgggcgaac g 461

<210> 39158
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B7

<400> 39158

ggacctttgg gctgatttat gtgcttgtgg atgtgcaggt acatctgcgc ctggcctaca 60

tgtgtaacat tccggttaaa aagtccgggt cactaccaaa gtgacattgg atgacgcgta 120

gcacttaata ccgatctaag ttcacgatac atcacaatac taacacaact ctagccaggc 180

gcatcgtatc tagtgtatca ccgtaatttc gagaacgtca aaatcttatg ataggttaat 240

acatactgta cgtaagataa ataccggcac tcagacgatc ctacaaccgc 290

<210> 39159
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B8

<400> 39159

ggacctttgg gctgatttat gtgcttgtgg ctgtgcggga ctaggaagga gtacccgaag 60

acgatacctg ctaaacttta agacatgaaa ccctggtgga tggacgagtt cgagaagtaa 120

gacgccgatt ttacgggctt ccccggcgga acaacgacag agcgtggaat taactaattc 180

accgagaaag cgtccgtagt cgaagacgta gagcgccgca cccgttcact ggtccacgac 240

gatagcgtag agccgtgtga atcttttcgc gggtattacc cttatcgtat tcgcactgac 300

aagcggtcct atactaacgt aatacgtttt tcgcgtaagc ataatacctg gaaaagtagt 360

agcagtagcg gaagcgaaga agcacgaacg tagctcgtcc gataacgtaa actcggccta 420

atcctcgcct ttgcgtcaac gcaat 445

<210> 39160
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B9

<400> 39160

tttagtgctt ggagtccaga aggatagcag cactcaccac cggcttttcg cctcgagcca 60

acgcggtcca cctcaatcag agagacaaag ggtggtgtct cagaggactt aagtccagca 120

tgtgcgtacg tgatgtacat cacctcacag cgcattcaaa ccgacctacg gttgctgccc 180

ataatgctcg atcgggaaaa tttcgtgcca tttaatccaa ctgttccgta gtatactttt 240

tccctgttat cggtgcaaca gtgaataggt ttgtattgac tgtttccgtt aatagccgtc 300

tagttcgaac ggtgaacggg atgtgtttcg cagtggagta ccaagtgtgg tcggcgcggc 360

ggccatgtgt agtgcgattg ccatatccgt t 391

<210> 39161
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-C1

<400> 39161

ggacctttgg gctgatttat gtgcttgttt atgtgcttgt agtacgccga ggaggtagag 60

agaacgggca cagataacac ggacgcggaa gtttctaaga agacgaataa aaataagaag 120

tcagcgaaga agtcggtaaa gaagcattac gtcccttccg tactcgaggt cactaccaag 180

taaaccttct gctcctccgg cttcggctcc aataaggtag gaaaaccttt cattccggcg 240

atatattagg aactttccga gcttaaggcc aatgagataa aggtcatagc caagccttag 300

tcgaagaagg cgtcccgtac gggcgccgtc gccggtaatc gtggtacgga cgagaagtag 360

actccttaga acgcgtaaac gagcgctaat ccntctgcgc tgtctccgaa aaagaaacgg 420

tagaacgcg 429

<210> 39162
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-C11

<400> 39162

cccgttggac gtgtttatgt gcctgtggat gtgcgggtgg atgtgcgggc tacccaccta 60

tcgtgttaag agccttaagc cgtggtcgga gatcgtcggg cgaagaaggg aggcgtacct 120

atcggcgaaa ccagcgtcga aacgtctgct aattccggtg cctttcgggc tacctccgga 180

tatctcgaaa ggagagtctc gtcgggagaa ctaaacgagc ccgccggaga taaggccgtc 240

cccgtctcgc tctagggatc aaaggctacc gtacgcgccg gcgagatttc cgaggagagg 300

gaggtcggcc taattacgga cgccgccgtc gtataaataa aagtaaccgt cgagaagact 360

aaggatcgga gtaatgccgc ctccgttcac gaattagctc gggtcaccgg aatcggtaaa 420

gctg 424

<210> 39163
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-C12

<400> 39163

tctcgttaag tagtactctc ctggataggt gtcttctaga cgagcctacg gacgttaata 60

cttagtccgt ctctgccgcc gtcaggaagt ctaaagagtc taaggggatc aggctccgca 120

cagcgccctt cgactaattc gaaaaatgca gggtactaga gccgcctaag atagtcacag 180

atatgaccga gggcgcaatt actagtcttt cggacgaccc atttatcgat ttcgctaata 240

gtcctcctaa actaacaaga aatatttcgg acctcgatcc tctagacgat aacgaaggca 300

gacggaaact cgacgaatta ttactgccac acactcctac taatagtagt atgtgcg 357

<210> 39164
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-C2

<400> 39164

ggacctttgg gctggtttat gtgcttgttt atgtgcttga tctgcgtcgg agaaggttgc 60

tatgtttacg gtgtttggtg ttggtgtgta gcttagtgtt catactcatg agtctcctaa 120

tgaggattct tgggtgggtt ttgcgctgga ggtgaatcgg ggttcgcctc atgggaatgg 180

tattttggcg cattcttcgt atgcgcttgg cgtggatggg ccttcgggga atgatatgat 240

ggattggatt cctcgtgcgg ttgttgatga tgtggattag aaggtggcgt aggtggttac 300

ggatcgggtg cgtgggtttg ggtgtgttga tcgtatggtg acatagtttg ggtaggtgcg 360

tcattagttt gatgatgcgt gtagttatgt gctgcctgtg cctgatgttc atcattagct 420

<210> 39165
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-C3

<400> 39165

ctttggctga tttagtgctt gaaaaaaaaa aaaaaacaaa aaaaaaaacc caaaccaaaa 60

aaaaacacat aagacataag gagaatgcct taacgggcgt gttcccacag gccttacgcc 120

cctgcatttc cgtcacgtca tgacacaatc tcgtcccagg gctcttcaaa cgtaaaaatt 180

cggttgcagc ctaatactgc tgcgatcggg aaaacttcgg ccccgttaaa cccagctgct 240

ccgtagaata ctttatcc 258

<210> 39166
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-C4

<400> 39166

ggacctttgg gctgatttat gtgcttggga ggaggttggt gatggtgata gtacctagag 60

ttctgtgtcc ggggtgtccg ataatagtcc tccagctggt ggtgttggga cataggcggc 120

taagaatcct tgttatggtc cgtatgggaa gggtgtgctg gcgaagactc tgggaggttg 180

cggtggtagc gggagtgtcc acctgatgtt gaagaaggta tcgtcgacgt gtggtgagat 240

caatacgtca tcgacgagtt taggagaggt ctcgtacctt aacggcgcct attacgccga 300

tgccgagatc gggaaggccg ctgtagaacg gtggcccgag aaggacggag tcgacactat 360

aacgtgagat accgttaacg atagtaaggg agtgtagccg gaatttcntg ggctgatacc 420

tccgggttcg gacgat 436

<210> 39167
<211> 474
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-C6

<400> 39167

gcttggccct ggacctttgg tctgatttat gtgcttgttt atgtgcttga gtaaattaac 60

aaagcacgag agggggagag atatagaggt tctatcgtat atatcgctcc gctctctagc 120

tttagagtcc ctccggactg tgaggaactt atcggaaacc ccgtaaccgc agcagagaat 180

cgcactgctt gatgaaggcg tacggcgccg gttacgggct atggtaggga atagagatga 240

gtaggctggt gtctcttttt tagtctaccg acttcgcttc tgtcacaagg cagcttcgtg 300

gcggttcttg aaccctatct gactgaatat gatacgaagt ggttatgtgg tgttagcttt 360

ttctcggtcg tgacgattaa cttgaatgac gacggccatg gtgcggctgg gacggaggtg 420

gatgtagatg tggatgtgga tgangagacg acggtgcgtg gtggtggtng ggag 474

<210> 39168
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-C7

<400> 39168

cttggccttg gacctttggg ctgatttatg tgcttgttta tgtgcttgcg aacgaataaa 60

taacacacaa tgaacggacg ggtacgcaca ctgctacgtg tacgctttat gatgagatgg 120

gagcacatta tggcgcagca gcaccacacc aacaaccaac acagcacgct tattcccgcc 180

cgacatcatc aagggtcacg caccgaggta aaaaaaaaaa aaaaaaaaaa aaagggtggt 240

tgtctcagag gacttaagtc catgcatgtg cgtacgtgat gctacagtct cctcacagcg 300

ctattcaaac ctaacctatc ggttgctgcc ccataatgct gcgatcggga aaatttcggt 360

gccatttaat ccaactgttc cgtagtatac tttttccct 399

<210> 39169
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-B11

<400> 39169

tgcctggcgg gacgttagat aatccacagt cctccgtccg nagttactac tttatctagt 60

catggggaga gtatccctag cggtcgcggg gacttaagaa ggtccctgca gcgtaatacc 120

cgtaatcgta tcagctcccg tacgcgcggc cacgtacgac gtccccggag cctggccata 180

cgttggaaag taggtagagg cgtcgaacta aaccgctcac gagtcgttag aggaatattt 240

accactagag ataaagttat cgtgcgaaac ttccggatac atcgccttct aagctgcggt 300

tggacgtact tccggaactt ctacggtcgc tgccacgtcc ccgctctctg ggaggctcca 360

gctaagcgcc gcctatttca cactctgtcg gcgacggtca taaagtacaa aaatacgact 420

cct 423

<210> 39170
<211> 183
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-H4

<400> 39170

aggaaccggg tgcggaccca cgccgtcnnc gcaaattgta ttctttcatt tagatnnctg 60

tctgagtgtt gtataactta nnaatggann gcagtagtat tctatcagtg agttggtacc 120

cctgggttac tgagtattta attttgtttt cataatctta tcctnntaca gacgattgca 180

ctt 183

<210> 39171
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-H6

<400> 39171

cggacgcctt ggccgacccc ttggggcaac ttgttagact gggagataga gagaggagag 60

ggagggtttc ctcaaagaga acctgaaccc aaacccaagc agagaacact agcgttccct 120

caccaaggcg ggcgtccatc ccagcagcca tggcgatggc gtacaagatg gtaaaacctt 180

ccccgcgctc cggccatgcg cc 202

<210> 39172
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-H7

<400> 39172

ctcttcttca cctcactaac accagctagc tacttttttct tttctgcaat aaagggcggt 60

tggttcttct tcgacaccca agccgacccc accgacgtac actcccacac cgaagccgcc 120

ggccaccaaa gccgccacct acacttcgac gccgccggtg tttnacaccc ccagcccgcc 180

gncaccatac tactagaaag cgatgcctac cataccacac tgctgtcagt ctctggagca 240

tttaggtggt ctggatcaat ggaagggttg tgtcctagcc agccggcaaa gatgagctgc 300

tgatggtaat gatgatgata agaggccact gctaccctac tacgtaccct cctctttgtg 360

tgctgccatc cgtccccgtt agacgatcga ggagagaata acgcagagc 409

<210> 39173
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-H8

<400> 39173

cgagcacact gatgttgctg tcctgctcga caatgaggcc atctatgaca tctgccgccg 60

ctcccttgac attgagcgcc caacctacac caacctcaac aggcttgtgt cccaggtcat 120

ctcatccctg actgcttccc tgaggttcga tggtgctctg aacgttgatg tgaacgagtt 180

ccagaccaac ctggtgccct accctaggat ccacttcatg ctttcgtcct acgctccagt 240

catttctgct gagaaggcct accacgagca gctgtccgtg gccgaaatca ccaacagcgc 300

cttcgagcca tcctccatga tggccaagtg cgacccccgc catggcaagt acatggcatg 360

ctgcctcatg tnaccgggtg atgt 384

<210> 39174
<211> 340

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-H9

<400> 39174

cccagatgga gtcttctgtt ggtgtagcag atatacagta tagatattct cggtactaag 60

tcatttgatg gtgctaacga catggcagtt gaagcaacta ttgtctctgt tgatcaaaat 120

ggcgaggact ctgtagttcc tgctgaagca ggtgtagagc ctgaaacatc agagcaaggt 180

cggcgccagc aaaaccagag aggcagaaga aaaggtggta tgaaaagaac acggtctgtt 240

agtgctgtag ttgaagatgc taagatgata cttggcgagg tttttgagga gaagactgat 300

gatcagggag atacagtcaa ggtgggcgct acacgaaagc 340

<210> 39175
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A1

<400> 39175

gacctttggt ctgctttatg tgcttgggag cttcgaattt aattgaactt ctccacccat 60

cacttattat acgactcact tcacaatggc ggtagcctca tactaagcac ctatagtcca 120

cggacccgcg gagaagaccg ctatacccta aaagctagtc ggcccctaag tctccaccta 180

gccctatctg tgttaagaag tcgcggaagt acccggcctc ccgtacggaa cgaatacaca 240

cgacggccgt cgttagtcag acacctaaca cctaaactct agcgaatcgt aagcttacca 300

taataatgat tgactcagag accctataaa cttactacca ttcatagaat aatgtttcag 360

ggttctctag taagtccact tcgacttagt caactctcac gtt 403

<210> 39176
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A11

<400> 39176

taaagggttg ctgtctcaga ggacttaagt ccatgcatgt ccgtacgtga tgctacaatc 60

actccacagg gcgattcaaa ccgaacctat cggatgctgc cccataatgc tccgatcggg 120

caaatttcgg tgccattgaa tccaactctt ccgtagcata ccttttccct gatagacggt 180

gcaactgtta ataggattgt attgactgtg tccgttaata gtcgtctagc tcgaactgtt 240

aacgggattt ctatcgcagc ggagtacca 269

<210> 39177
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A12

<400> 39177

cccttccgta attgaccgct cacttttct ttaattaaag attgacggtg tttaacgctg 60

agaagaagtt tgtggtgaac aagttggcgg aggaggagtt tgtggttgag aagatgattg 120

ttgggaagaa gtttaaggtg gagaagtggg cttttgtcgg taagcttgtt ggtaaggagg 180

gtggtgaggg taagtgcggt aagaagaagg gtaagaagag tgcggagatg cataagactc 240

atactcctaa ggcgtcgaag taggcgtatt tggatactgg tactcttctt aaggttacgc 300

ttactacgaa tcttcctact aatgatactc ctgag 335

<210> 39178
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A2

<400> 39178

gacctttggt ctgatttagt gcttgaagta ccggacgtct tcacccctta cgccaatggc 60

gacgacccgg aggtcgccgc ctacgctcgc gagtctgttg tagaacggtg ctagataccc 120

tacctagacg cagcggcgga taccgcacgt cattggtgac ccggttacaa cgaaaccgac 180

gagttgcttc ctatttaatt caagacgcat aaggcgacca ggaattacgt aagcgtgtca 240

gagacccact aaaggaagcc gccagagctc gggaagactc taaaggaaga caccgacagg 300

ccaaatataa aggctagtat cacatccaac gaggaaccct agaatagtaa agatcacgcc 360

tt 362

<210> 39179
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A3

<400> 39179

catgaaaaaa tatatatagg ggaggggaaa acccctctgc tcctcctttt gcgtccgtta 60

gtcgttgaag ctggtgagtc tcttgaaagt ggtggtcacg ggccttagtt aggtagacaa 120

gttatcgtga tgcactgtgg tgctgcctga ggagtctgtt gttgctgtta agtagtactt 180

tgtggcgttt acggatgtcg gggttcctct gtgtgttcgt cttaatgctc ttgcttctcc 240

tggtcgctct ggtactgtcc ctaagcctgt ggagacggat catgctgtga aggccgacga 300

cccggcggag gtgcttaagc taaccctaat accgttcctc acggccgagt gagataccta 360

gattgatatc gctaggaaat tagggagtta cataaggaac tc 402

<210> 39180
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A4

<400> 39180

tttggtctga tttatgtgct tgtttatgtg cttgtttatg tgcttgatgc ccatcattgg 60

tggtgagtgt gcttggatga tgccttttga agttagtgtt aggggctggt tgttaattat 120

tccgttggtt ttaattaagg aaaaggggga aggttttgaa ggaaatccta aggttgcttg 180

gttgcttttg gaa 193

<210> 39181
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A5

<400> 39181

tgcgtgttta tgtgcttgga tcagcctcac gattcgtagt ctgtggaggt tacggcggag 60

cctaataaga aggataggac tcctaattct agaggtgctg tttcgggtaa tttggcgtcg 120

gagcctgtga tggatcctaa tgtttgagtt gagcatcctc ggctgtatgg ttctactctt 180

gatgttattc attgtgcgcc tattcttgtt cgtaatcatc tttggcatgc tattgagcat 240

catggtggtc tgtcgctgtt gtcgcgtgtt tgggcgacga attaggcgat gtgtgagatt 300

agttgtcctg ctgataagca tgatgctatg tctgatgctc gttctctgct ggcgtctctc 360

tagcttaag 369

<210> 39182
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A6

<400> 39182

acccctggcc ctggaccttt ggtctgattt atgtgcttgt ttgctcctct cttgtatctg 60

acatttcact tccgatcagt cttgactcgg catgagacgg ttggtaagac gaaggagcca 120

gatggtgtta gtttcgttaa gactcctacc ggtgggtctc ttaaggacat aagtacgagc 180

atacctaaag aataccccgg gaagcacggg gacacaaccg acgtcgctac aacgaaggat 240

tgtcatatat aaaagtttag aggtcccggt cccaccatcc ccgtcgactt tatcgccgcc 300

gatagagcga ccgatgacga atacgccact aacggaaaat tggccgaaac caagagaatg 360

actttcaagg gagtcgtctt cccgaaagac cctaagatga agaagacccc cgccggcgga 420

ccatttctag tctcaaaagg agacgaacct aaggaaactc ccctaagccc gggaag 476

<210> 39183
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A7

<400> 39183

ggcctggacc attggtctga tttatgtgct tgttgatgtg cctgtttatg tgcctgtggc 60

cgtgcggggc gtccgcgatc cgtcgcgagc ctaagcaccg gcctgaggag aagacgagag 120

aatgtcatag taacgtctta aatggactcg tctaatacgt tcggctgatt gtttcagccc 180

gcgcggctca tttcagatag aaccactcgt cgcgccggtc cgcgcatccc gaccgcattt 240

taagcacccc gaagcctcga atccaccctc gtcaaccggc gctcgaagcg gacaaaaaaa 300

aaaaaaaaga agaaaaaaaa aaaaaaaaaa agggtggttg tctcagagga cttaagtcca 360

tgcatgtgcg tacgtgatgc tacagtctcc tcacagcgct attcaaacct aacctatcgg 420

ttgctgcccc ataatgctgc gatcgggaaa atttcggtgc catttaatcc a 471

<210> 39184
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-A8

<400> 39184

tttggtctga tttagtgctt gataccctca gagagtcaag aatgccgcac tacaggacac 60

cagggaaagt ataggaatct cctccccctt acgaatccag tttcggaagt cgtcctcctt 120

ccttatacgg cgtcaggaca cacaataaat cgacggatcc tacgtgataa tagcatagag 180

acagaggaca ttaagaggcg ccgagtttaa acacccataa cacgtaatca cgggaaatcc 240

tcggatatgt tgtanatcac aaggagaata cgcccgcccc cgagactgag aaataggaac 300

ccggatccaa gttaacgaac cgcttaggat atcgctcaac gcccgtcaac agggcctggc 360

tgcatagaga gccgttctcc tgtacggtcg accccggagc gtcctacaga aacgagtcca 420

gcggcgtctc ca 432

<210> 39185
<211> 369
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-A9

<400> 39185

tgcttgttta tgtgcttgtt tatgtgcttg ttgcccttca tgagtagctg tatgtaagcg 60

ctaagagatg aaatggctga tacggtctgt atgtaactcg ttgcagtggc tgttgcggcg 120

gttgtggcgt cgtcgtcggt agtggtggtg atgattctgg aggttgttac tattcgtggg 180

taggcgagtc ttgttactgt gtttcgttct cttcatgttt gtggtatggg gcttggtttt 240

cttgtgcttc gtcgcagtgg tgctaggaat tctaagagtg ttgntagtat tgttgntgat 300

aggtgtgttg atcgtaatcg ttctaagaat gttgntaggg gtgctagtgg ttctaatgtt 360

ggtaatgtt 369

<210> 39186
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B1

<400> 39186

tttgggctga ttagtgctgt tatgtgctgg agcgcaatat gtaggtcccc aacagcttcg 60

aaatcgtcag tcgccgtacc atcggtcata tcaagcgaca aacaaaaact actcacggaa 120

ccacaataca aaaaaaacga tcgttggcgc atgtctcata ggaccaaagt ccatcgtacg 180

tagtacgtca tgctacaggc tacgcaatac gatcgtaaca cataggttgt cggtcgataa 240

tccatcaatc ggcaatcaga cacaagtcat tagtatgtct tccac 285

<210> 39187
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B10

<400> 39187

aagtttgtcg tgaaaaagtt ggcggaggag gagtttgtgg ctgagaagat cattgttggg 60

aagaagttta tggtggagaa gtgggctttt gtcggtaagc ttgttggtca gcacggtcgt 120

gagggtaact gcggtaagaa gaacggtaag aagagtgcgc agatgcataa gactcatact 180

cctaaggcgt c 191

<210> 39188
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-H3

<400> 39188

gcagaaacga gagggccgga gcagccgcag tcccggcgat cccgccgccg gtcgccctca 60

tacttcctcg tcactgcctt cgtttctctt tccaacaatc aagatgagcc gtggcggtag 120

cgcgggtggt ggtcaaagtt ctctgggtta cctctttgga agcggtgagc cccccaaacc 180

agcagtggca ccagctgtaa gtgctccacc tgctgctgca ggtgctccac ctgctgagaa 240

accacctgct gcaaagcctg atggcaccag tcagattgct gctggggtta ccagccaaac 300

caataactac cacagggccg acggtcagaa caccg 335

<210> 39189
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F8

<400> 39189

caaggacctt cggcgcccgt tcaggatcca catcttcccg agcgagttct tggttgacct 60

gttgctcttc ggaccacctc caaggctctt ggtgtagctt gccactctca ccaatcaagt 120

tttcatgtct gatctcgaca ttcagatccc aactgccttc gatcccttcg ctgaggccaa 180

tgctggggac tctggtgcgg cagcagggtc aaaggactac gtacacgtgc gcatccagca 240

gcgtaatggt cgcaagagcc tgaccaccgt ccagggattg aagaaggagt tcagctacag 300

caagatcctc aaagatctca agaaagagtt ctgctgcaat ggtacagtgg tccaggaccc 360

agaacttgga caggtcattc agctccaagg tgatcag 397

<210> 39190
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F9

<400> 39190

ggagatgcct agcactgatg ataactcaaa gtttattggt catcggtcta caagtcaaga 60

accgacatat tcagctaaaa atattgctga taatggcaaa gtaacatccg ggactggtga 120

aaacaaggtt gaattcactt cacagactga aaataatgtt gccgggaatc taaagtccac 180

cttgcaaacg attgtacatg gaggtgttgg ctatcatatg gtaaactgtg gtttgatact 240

gttgaagatg ttatccgaat acgttgacat cagtaaatgt ttaccatcac tatctttgga 300

ggtggtccaa cgtgttgtgg aaatattaaa gcttttcaac actaggac 348

<210> 39191
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-G1

<400> 39191

gtggtgggca agagcagggg cgacacggtc ttcaccacca tcgtcaacct ggcggaggag 60

gccaagctcg cgcgcgaggg cgtcaaggcg cccggccacc agatcctcac catctgcaag 120

tcgctcgtcg ccggcggcgt agcaggcgga gtgtctcgta ctgctgttgc tccacttgaa 180

cgattgaaaa tattgcttca ggttcaaaat ccgcacagca tcaagtacaa tggtactgtt 240

cagggtctca agtatatctg gagaacagag ggcctccgtg gacttttcaa gggcaatggt 300

accaattgtg caaggattgt tccaaattct gccgtgaaag tntttagcta 350

<210> 39192
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G10

<400> 39192

cccacgcgtc cgccaacgca tggacatact cgtctgcgca cttggaccag ggataatagg 60

tttcattgtc gtaccggggt tgaacattta tactttgtaa actccgcaac ttccaacacc 120

cttagagcta tatccactct tacgactact acttacggtg ctaccatcga gactattcat 180

ataaggggat aggcgtccga cgtctagctt gttctaagtt tctcaactgc aagggtgcta 240

ctgcttacgc gcttggaatg ctatcgttc 269

<210> 39193
<211> 407
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G11

<400> 39193

gaagctgaga cgacgatgaa gaacaatgtt tgaaccctag aagcgtcaaa agatggcaaa 60

gtgagagatg ccagaaatgg agaaaacaat ggcactgaag atggtgggaa tgaaggaatg 120

aggagtggga atgttggtag caatgcagaa gctgaagagt ctcacggtca tggaaataat 180

gaacgcgcag aacataccga agatgacaag ggtcaggaat gtagccacaa tgagaacagt 240

gcaagtgtag gaatccttgg cgatggagac agtgaagcta gagaaggcga tataaatgcg 300

gaagcggaac aaagtcaagc agacggtggc ggcaatagta aagcggaaga tgctgagcac 360

aatgaataca ccaaaactga cgccaattca agcaagaatg gtactac 407

<210> 39194
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G12

<400> 39194

cccacgcgtc cggttcggaa cgccaagctt tccctccggc gaaatggccc ccaagcgagg 60

tggcagggcg ccggtgccgg ccaagaagaa gacggataaa gtgacgaacc ctctattcga 120

gaagaggccg aagcagttcg gcatcggcgg cgcgttgccg cccaagaaag acctgcaccg 180

gttcgtcaag tggcccaagg tcgtgcgtat ccagcggcag cgccgc 226

<210> 39195
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G2

<400> 39195

caggttcaga tgacatggtt aaaatcacag ttgcaggggg actctgaact ggcggaggag 60

gctcatgtta tacatgtggg cgtgaaagca cccgtccacg agatattcat gatctgcaaa 120

ttgctcatct ccggctatgt atccagcgta gtgtctatgg ctgctacagc tccacttgaa 180

ccatcgaaaa tattgctaga cgtttaaaat ccgca 215

<210> 39196
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G3

<400> 39196

cggacgcgtg gggcagtgga aagaaaaagg taactctcag gcttgatctg gtagagcaat 60

cgtcattgaa gtacaaggat gcagacttta tcattttcaa tacggggcat tggtggacac 120

atgagaaaac tgctcttggg aaggactact atcaagaagg taaccatgtg tataatgagc 180

tgaatgtcat ggatgccttt cataaagctc ttctcacctg gtccaagtgg atcgatgcca 240

atgttaaccc cagaaaaact ctggtgttat tcagaggcta ctcagcatct catttcagtg 300

gcggacaatg gaattcaggc ggtggctgtg acaaggagaa gtaaccaata accaacgatc 360

agtacctttc 370

<210> 39197
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G4

<400> 39197

ggcaggctgt ggaactggca gcatggccct attagcgttg ctcgatctcc tcatcgctac 60

tggatggaga gcagttggct agttgttagc ggtttcccta gtttctcttc ctcttgtgtt 120

ccccgtttca gtttgcttat agccccgaag actcttttct cccgtagtgt cggaatgcca 180

gggtctgtcc ctgtgggtgt gttgcgtaac tgggatccga gtataccctg ctgtgttcgt 240

cgttacattg aatggatctg aatgaaagtg ggttagattg gagcttttct tc 292

<210> 39198
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-G5

<400> 39198

tcggggagct ttgacgcgcc gtcgcaaaag aatttttgct ttggtcttgc caaggccaaa 60

aatggccacc cttaccctgg gcaggattat caactttgac aaggtccagt ctgtggttaa 120

gccactcaac agggaggtga agcgcangga gaagaggaag aacccgctca cgaacatggc 180

tgctgtgctc aagctcaacc cctacctcgg cactgcccgg aagatggcca cccttgctga 240

ggctgcccga gtcaaggccc ggaaggagaa gcttgattcc aagaggacca agcttacctc 300

ggagactgcc aaagtcaagg ctgccggcaa ggcgtggtac aagaccatgg tctcggacag 360

tgactacacc gagtttgaga act 383

<210> 39199
<211> 353
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-G6

<400> 39199

agcgaaaccg aaagagagca aagcttggca ttggagctcc cgtggggaat gctgctgccg 60

ctgctgctgg tcctctccgt ctcgtcctcg tcatcgtcgt cggctgctgc cacgctcgcc 120

gtcagcgctc cgcccccact gcctgttcct cctcctcgtc atgctcaaga cgccgaaggc 180

atgctcatca acggcaactt cgagacggcg ccgcggaagc tgaacaagac cctgatcgtg 240

gggcgccact cgctgccggg gtggacggtg canggccacg tggagtacgt ctcgggcggt 300

ccccagcccg ggggcatgtt cttcgcggtg ccgcacggcg tgcacgcgct gcg 353

<210> 39200
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G7

<400> 39200

cggacgcgtg ggcgctaggg ctcgcccttt ttttttttt ttttttccag tacgacatga 60

tatgatgcaa tacatagata cggtacaaga ggttaactga tctgatcgga tcggacattt 120

atatcccagc tggggcagca tgcaatgggc attcttcagt ttggtctgaa cggccggcag 180

taatataatg gtgatcttgg agcctcatga caaacaagag gagacagcag gggaaagcta 240

gatgcgtttt gagacaatgc atgatgcttc gtcacgtaca gtatttgtaa atgccaactg 300

ctcgtgtcca tcaaattgat gaatgggcta 330

<210> 39201
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G8

<400> 39201

cccacgcgtc cggaaaaggg tcaggcgcat tgtgcggaaa tcacaggaaa tgttatgaag 60

aaaatggaat actggggaag tcaaccgtgc catgtcaggc tacgagattt tgctttcaac 120

ctcaaaatgc tcatctgaca tcttgtgtat tttccattta gcgtctgttc attggtgcac 180

cagaaatgca ttgggacgtg gtgtatcgtg tggcctgggc tctactaatg tttgacaatc 240

ctgaagtgcc accagtggtg aacctggtat aagcaggcgc cattcatgtc agctaatcgt 300

tgagaaaaca tatcagtgaa atcgtgcaac tgttagtgta atgaggcagt tcctgcttac 360

atattattac tc 372

<210> 39202
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G9

<400> 39202

cgggcaacgg tcggaaagga gctggaagat atataaagga gacattgtga tatgacttca 60

atactgcatg cgctaggcat ctcagttgaa ggtggtgagg ttaaagcctt caagcaagct 120

cttctgaaat tccatcccga cagggtatca aggaatgata tttatcaaca agtaaaagca 180

gaggagacat ttaagttcat ttcgcggctg aaggagaagc tacctcggct atcctaatag 240

ccatcccact ctttttttcca catgccttgg cgcatcctcc attcacctgt agggtcaagg 300

tacagaattc agaggatgtt tattggcgtt atttacaagt aactagggct ttagcttgtt 360

aaatgtgttt ttgtgtgtgt gtgtgtgtgt tgggggttgg gttgggtagg cattcctgtc 420

aactatgaca tgggatggta acca 444

<210> 39203
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-H1

<400> 39203

cccacgcgtc cgcccacgcg tccgggctgt gtagcctctt ccccggaaaa taatttgacg 60

agtgtataga aaatgtcaag gttggagcta gtgttcaaaa gaccacatat acaatgaaga 120

gagacatgct caccgctcac ggagagaagg tcattcttcg tgcccttgaa attgagaaat 180

cccggctgcc acactcaaag ggtatttgag tacctgtgga tcttctgtat ccataaagga 240

tcagatccca aaacccattg gtcaaactac tgaatgcagt aaacagggca tatcttatat 300

ctgagattgt agatccaaga tgcagatcag cggctttgtc acccctattg gtcctttatc 360

tgaagaaaat cacacgatcg acaagaattt gttgccgctg gagtgtgaag ggacaatgga 420

atgccacaca cgagacaacg atg 443

<210> 39204
<211> 278
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-H10

<400> 39204

cccacgcgtc cgcccacgcg tncgcttacg tgntgtcgga cgcgtgggct tgcgcgaagg 60

gggttacgcc ccctgtgcct cgcttccatg agaccccaca gcagcggcag gaaacattcc 120

cacaccagac gccgagatcc atgccagtgg ctcgatcttc ctcaacgatg gctgcctatc 180

cgacctcgct gtggacctgc tgctcgccgt cgcgtgtgca ctttttactc cgagcagaag 240

ccccagatct gcgcaagccc cgcgttatta tcgacctc 278

<210> 39205
<211> 319

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-H11

<400> 39205

ccgcttcaac aagcagcggg cgggtctcgg gctgcgcgcg ggcgcttggt ggacgacgct 60

caagcggagg cgggcagcgc ttgggagtca ggcgtgcgac cttgcggctg tgctcaggcg 120

gggcgttgcg tgaagcgcta gggagtcggg tgtgcgacgg gcggcgctcg ttcctcaggc 180

atgtgcggac gacgctcaga cgcatggctg tgtcgaccac ttgcagacga cgccgacaca 240

gatccaggtc caggtccagg ttaagtattg gtttttggtg tgtggacgtg attcttctag 300

tgagatatgt tctgaagcg 319

<210> 39206
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-H2

<400> 39206

cgcggagctg gacagggcaa cgcacgtcca caggctggtg aaggggacg acatcgaggt 60

gcatcttgac cacaggcaca tggggctggg cggcgacgac agctggtcgc cgtgcgtgca 120

cgagcagtac ctgctgccgc cgacgcggta cgccttctcc ctgcggctct gccccctgct 180

gccgtcgtcg tcgtgccatg acatctacag gtctcagctc cccagctgat ggtgccgtgt 240

gccggagacc cgtcgacgtc gagccttggg aaacaacaat gaacgcaatg gcctggccag 300

tgaatgaaag tatataatat tgtaataaag cagagacgta 340

<210> 39207
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F7

<400> 39207

agctcgcggt cgcggtttct tgcgccactc tggctcagcc gccgcccgcc acccgccaca 60

gccgccgcag acgagatggg catcaagggt ttgacgaaac tgctggcgga caatgcgccc 120

aaggcgatga aggagcagaa gttcgagagc tacttcggcc gcaaaatcgc cgtcgacgcc 180

agcatgagca tataccagtt cctgattgta gttggaagga caggcatgga aactctcaca 240

aatgaagctg gtgaagtcac tagtcatttg caaggaatgt tcaaccggac aataagatta 300

ctggaagcgg gaatcaagcc agtttatgtt tttgatggca agcctcctga tatgaagaaa 360

caagagcttg ctaaaagata ctcaaaaaga gatgatgcaa cccaagatct g 411

<210> 39208
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D9

<400> 39208

actaggtcta ttggattgcc ggttgagatt tgtttttaac aaattttgtg ccaaggaaat 60

gggaccttaa tttcccaatg tatgtgttgt tacttgtaca cctagatgta tcaccagaat 120

ttattgatat tatatattct gtatatgttg cacggcagtt ccttttgcg gatagaagga 180

atttgccatt ttcgacaggc acggcagagc taaaactaag gtacagactg tagatttggg 240

tagatttatc cctcttaata aaacactgaa tagttccatc tcgaggccca ggctgcttca 300

aggaaacaag aaaagtgatt tttccagaaa actctgggct cttgacaatc tctctacaca 360

tctctctcca tgttctgcag acagctgcac aagcaactac atgtttccta gaaggccatg 420

ta 422

<210> 39209
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E1

<400> 39209

accgggccga cccacgccgt tgatctccac tattaacttt ccgccaattt ataattactg 60

ctaagacccc aaacacaagg cgcgacttta agaacggtgt gcgctccctc tactacacct 120

cccttgttag aaaaggacag cttctgtttc taaagctact aatgccgtca gaaagcc 177

<210> 39210
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E10

<400> 39210

gtcttcgtac tcgcctacct ccgcggctca tacctttccc ccttctccca attcccgccg 60

ccgctccatc ccgtaacgcg acaccatgag ggagtgcatt tcgatccaca tcggccaggc 120

cggtatccag gtcggaaacg cgtgctggga gctgtactgc cttgagcatg gcattcaggc 180

tgacggtcag atgcccggtg acaagaccat tgggggaggt gatgatgctt tcaacacctt 240

cttcagtgag actggtgctg ggaagcacgt gccccgtgct gtttttgttg accttgaacc 300

cactgtcatc gatgaggtga gaactggcac ctaccgccag ctcttccacc ctgagcagct 360

catcagtggg aaagaggatg caaccaacaa ctttgcccgt ggtcactaca ccat 414

<210> 39211
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E12

<400> 39211

ccgtccggcc tactctttct tggataattg actctggatg attgacacag acaagcacac 60

agctcaagct gcaggcatgt tgtgcgtgca tactatcgtg ctgaactatt ctgaacaata 120

tctgagataa taactaacaa agaaccagac ctacaacaga gcttacaaaa tagcgttgag 180

tgctgtgaac agtgctaaga acctgattat gatatgaagt atgacttcat gtaagactac 240

aacggacctg atgctggacg atatgcagct ggatgggctt gtggcgatcc tcatgaacat 300

cctgatgtac gcacagattg ag 322

<210> 39212
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E2

<400> 39212

cccacgcgtc cggccccaag tgcctgtgcg tgctcgtcaa ggacaaggac gaccccaacc 60

tgggcatcaa gatcaacgcc accctcgcgc tcgcgctccc caacgcctgc ggcgccaccc 120

gcgccaacgt ctcccactgc gctcagctcc tgcatattcc cccgggctcc aaagacgccg 180

ccgtcttcag ccccggcggc gacaagggct ccactgccgc tacagccaag gacaactcga 240

cggcgacgac cgacttccgc gcgct 265

<210> 39213
<211> 284
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-E3

<400> 39213

ctggaatgct acccaggcat agcttgctac cttatacttt tgcttgtgag anggcgggag 60

tactataata tgttgggtgg acttaatgat tgngaatggt atgtgttaca taattgttta 120

aatggaggta ttggttgant gatgaggatt aattattgaa aaaaaaaatt gggggcatgt 180

ggtagataag taatgatgtt taaatagaga gaaatagatt atttatttaa attgttatga 240

tatatatatt tatatttatg tatatatata tatatatata tata 284

<210> 39214
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E4

<400> 39214

ccacgcgtcc ggccgagact aatgaagaat aagaaactac gccttcatca agacgaagat 60

gtctggtctg tctcggcgct gttaccttga tcagcgcgac aggaccacca aacggactcg 120

ctgcggatgc gatgaacaag gccggggtac agaaagctgt ttgcaggaac tgtaatggca 180

gtggtgctgt gatatgcgac atgtgtggtg gcacagggaa atggaaggcc ctcaatcgga 240

agagggcgaa agatgtttat gaattcaccg agtgcccgaa ttgctacggc cgcggaaagt 300

tggtgtgccc tgtctgtctc ggaactggcc tgccaaacaa caaggggctc ctgcgacgcc 360

cagaagccaa gcagctgctc gacaagatgt ataacggcaa agata 405

<210> 39215
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E5

<400> 39215

gtcttcgtac tcgcctacct ccgcggctca tacctttccc ccttctccca attcccgccg 60

ccgctccatc ccgtaacgcg acaccatgag ggagtgcatt tcgatccaca tcggccaggc 120

cggtatccag gtcggaaacg cgtgctggga gctgtactgc cttgagcatg gcattcaggc 180

tgacggtcag atgcccggtg acaagaccat tgggggaggt gatgatgctt tcaacacctt 240

cttcagtgag actggtgctg ggaagcacgt gccccgtgct gtttttgttg accttgaacc 300

cactgtcatc gatgaggtga gaactggcac ctaccgccag ctcttccacc ctgagcagct 360

catcagtggg aaagaagatg cagccaacaa cttttgccgt ggtcactaca cca 413

<210> 39216
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-E6

<400> 39216

ctgggcacta tgaagttttg gccagccatc ttgaaatgct gttgcctgga acctatacca 60

gatcagagag atggtatatc cttgcacttt gctacagtgc agctggcatg gatgacagtg 120

cgttaaacat cataaggaat ggtttttctg tactggagag aaagggaaag cctcatgttc 180

catctcttct tttaggagca aaactatgtt gtaagaaccc aaagcatgct tccgaaggga 240

taaagtttgc aaataaagcc atgaagtctt tcagaagtcg tgatctgcat ttcatcagca 300

ctacaaaaca ctttcttggt gtttgttatg gacctttttc taggtcctcc acctcatact 360

tggacaaatc gagactgcaa gataatgcac tgaggctgtt gcangatgct gccacaacag 420

cgaagtata 429

<210> 39217
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E7

<400> 39217

accagtgtct attctttacc ctgcgcggtt cttcttaatc tctaatgatc tgaaacagag 60

gaacagagta aaaggagcag agaaagcttc atcttctagg ctttccttgt tagaaaaggc 120

tgcttctgtt ttgaaggcta ctagtgccgg gagaaagccc tctgctgcca attcgatcag 180

tagctctgtg ttaagtattg gatcaaggcc aaaggccttg agaagaagct gggaaggaaa 240

cacggatatt aaaggaaaag gcaattcaga atcaaagaca gccaaacctg acaagaagtc 300

<210> 39218
<211> 316
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-F1

<400> 39218

ggcttctcct ccccctccgg ttcgggttcg ggttcgtgag gttctccggg gttcggtttc 60

gtgggtgagc ggatcgagat ggcggcgtcn gatgttgagt accgctgctt cgtcggcggc 120

ctcgcctggg ccacggacga ccactccctc cacaacgcct tcagcaccta cggcgaggtc 180

ctcgagtcca agatcatcct cgatcgggag acgcaaaggt cccgcggctt cggcttcgtc 240

accttcttca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 300

gacgggcgca acatca 316

<210> 39219
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F10

<400> 39219

attcaggagt gcctaatcca gggtctgaat actgggacgt tggatttaca agtcaatggc 60

tggggccata aggctgcact ggaaggtgag gacaaggaga tctactcaga aaaaggtgtg 120

ggcaaagttc agtggaaacc tgccgagaac ggccgggcag ccacttggta taagagatac 180

ttcgatgagc cagatggaga tgatcccgtt gtacttgaca tgagctcaat ggacaaagga 240

atgatttttg tgaatggtga aggcgtgggt agatactggg tctcataccg aactcttgct 300

ggaactcctt ctcaagcact ataccatatt ccgcgtcctt tcttgaaatc caaggacaac 360

cttttggttg tcttcgagga ggagatgggc aaagccgatg gcatcctcgt gcagaccgtg 420

acgagagacg acatatgtct gttca 445

<210> 39220
<211> 372
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-F11

<400> 39220

cggacgcgtg ggcggacgcg tgggcagagt actgaagcag agcgagcgag ctgtccggcc 60

aaaccctcac ggccgcctcc acaatgccgc gccatctcgc gctgctcctg cccctgctac 120

tgctggcctc gccggcggcc acgcgcctgg cgtccgccgc ctgcgcgggc gagaagttcc 180

cggcggggcg tgcgtacgcg tcgtgcgagg acctgccgaa gctgggcgcg tcgctgcact 240

ggacgtacga cgcgtccaag agctccctgt cggtggcgtt cgtggcggcg cccgcggcgg 300

cgggcggatg ggtggcgtgg ggcctgaacc cgacgggcga gggcatggcc ggcgcgcang 360

cgctggtggc gc 372

<210> 39221
<211> 121
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F12

<400> 39221

cggaaaggct gttttgtggt gtgatccggt ggtgttcttg gtgttgttga gaactgcttt 60

ggtttggtgt atcagctttt gttgccgggt aaaacgcctg tgagctgtga tgtgatgctt 120

c 121

<210> 39222
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F3

<400> 39222

gctagcagcc gcctcctcgt caggcccttt ttccttcacc ctcgccaaac ccgcctcctg 60

cggtccgaac tccgtctgct tcatctgagc gtccgggagg acaaaacacg cggcgaggac 120

caggatggcg attgtgcggg aggaggcagt ggacacgtcc atcagcccaa gggtgagcgc 180

gctgcggccg tccaaaacca tggccatcac cgatcaggcc atggcgctgc ggcaggccgg 240

cgtgccggtt atcggtctag ccgcgggggа gccagacttc gacacgctcg ccgcgatcgc 300

ggaggccggg atggatgcaa ttaggaatgg ttatacaaga tacactccta atgctgggac 360

<210> 39223
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-F4

<400> 39223

cggacgcgtg ggtgctaact gagaagctgt ttttgctagt ctcaagccca tacttggtgg 60

atctaggatc gcctcggttc atcggtgttc ctcctgaccc gcagtggtcg atcgacacgg 120

agatgcacct caagagcgtt gttcatctgg acaggtctca ggaggtagtg aacattgttg 180

ggagcaacgg acagacctca cctagggaca aaagaggtgg cacgagaaac agggtcatga 240

gctcggcctt cgtccccctg tttcacctca gcatagagct gccaaatgag gaggatgcag 300

aagggacggt gcaggtccta caggcactca tcgagaaggg caaggcacgg aggtgggaca 360

agaacatnct acaccggagc aaca 384

<210> 39224
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-F5

<400> 39224

acgccttcgg anaaaaaaaa aaacttgata attttacgtc aagcccacac ttnaaggggg 60

tgtttttgga cgggcgtctg ggaggtccaa actacccgac cctctcaaaa aacagcgtag 120

accatcttaa ggggaaactt aaattaaaac caagggtcag gcgcgttcga tcagagcaac 180

gagcaacaca cagacgtaac cgaacgacaa aagatgtaca tgcacgcaca cgtccataaa 240

ctgagtaatc gtaaaaacga cagcaccgat caaaaatctc acaaataccg aagtttcact 300

gggaa 305

<210> 39225
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F6

<400> 39225

gtggagaccc tggccacgtt cataacgctg gacgcctcgt accgctgcag cgaggccagc 60

gagcgggagc tggagctaga tcccggggag caggagcggc ggctgaccgt gatcgcgagc 120

aacccgctgc ggcgccgcgc cagctacgac ctccaggaca gcgtgcagca ttcggcagcg 180

tccaccgtgg aggtgcgcgc cacggccgcc gacagcatga gccccaggga cgcggagatc 240

agctcggcgg cggggccgaa gcaggtgcgg ttcttcatcg acagccacgt ggtgagcccg 300

gaggccgcgg agaacaagca ggtggcggat gagctggagg cgctggcggc ggcccgggaa 360

gccggcactg cgttcatcct ggggcattcg cacgtgcagt gcaagccccg gtcgttggtg 420

c 421

<210> 39226
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-D8

<400> 39226

cccacgcgtc cgaggcttaa attgagttgt ttgttttgca aacagcgatg atgctgccta 60

ggggttgctc aaagaattct gagcgaactc actgcaagag aaatttcaaa agcttatgct 120

caatgacatg aaagagctct caagaattca agctgaagtt ggtctacaga tgccactgat 180

gtctccgctt gattctgatg aagaaaagta ttctgtggct tctgattctg tttcttcagc 240

tgatcatgag aaggctcaac atggtggaaa ctcatctgac tcacagaata ttgattgtga 300

tcataccact gaagattttg aatccagtga tactctctta acgaacagtt catncctgcc 360

tccccagcct caaccacctg tgcctcctca tatggactcc tgatatcgat ttatccgaac 420

tggagagctt gttctccact 440

<210> 39227
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C12

<400> 39227

gatttgaggt cgtttttgca aaggatcttg ttcatagatt ttccttgccc gtggtaccgg 60

gcgatggatc ccacctactt ttcatgggct cacttccaat gcacacgccc aggacggatc 120

gtcacccgtg caattgtcaa tacactagag ttcctccgta ttgccccagc aggcagcatg 180

ggagcctaca acgtcctgat gagtgcctct gatggccttc taaaaggtgg ccgggaaggt 240

atcttcacag cgaccttctt cgtcctgggc cgcaagccta tcaaggaagc tgatatggtg 300

aacggcggcg tcctttgagc tgcaacatta gtatggggtt gtactcata 349

<210> 39228
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C2

<400> 39228

gcaactccct cgcttcctgc acccacattt tcgcggcgct acctgcctac ccagatcccg 60

ctcgccggtg gtgccctcct cagtcctcac tctcccgccg ctggcgccgc cggagcgagg 120

gggactgccc aaaccctact aggactagca gtaggaggcg gaggggcgag atccggcgga 180

ggccgccccg atgggggact tcaacgtggc actggtgatc gtggcggcgg tggtcagcgt 240

gctggtgctg ctcgtcagcg tctaccttct cgtcaactac cagcaccccg acgacgtcaa 300

ccaggcctac ttccccaagc tcgtcgtcgt gctc 334

<210> 39229
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C3

<400> 39229

gaagagctgc tgccaccaaa ccaacaaaag tattctacaa taatcatgct tagatcatct 60

ctggtgatat caaccctcct gattgctcta tctgtgcctt tctttggact tgtgatggcc 120

ttggttggtt ctttgtttgc catgcttgtg acctacattt tgccttgcgc ttgttttttg 180

gcgatcctca agacaaaagt ggggtggcat cagatagcag cttgctcgtt catcatagtt 240

gtcggggttt gctgtgccta cgtgggaaca tactcgtccc tgtcgaagat aatccagaac 300

tacgcatagc acagctgttc ctgtgatcct gtatatgcat ctgcccgaca aaatcatgtg 360

tgtgctatat 370

<210> 39230
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C4

<400> 39230

cccacgcgtc cggtgccacg gagttggcaa ctgcaaggag tgatattgtg gtacaacact 60

agttctaatt gaagtaataa ggcggggttg aaactgtctg ctaccattgc ttccatggca 120

actaatgaga acctcccgcc aaatgtcatc aagcaattgg ctaaagaact gaagaacctt 180

gatgagtcac ctccagaagg gattaatgtg attgtcaatg atgatgactt cactactatt 240

tttgctgaca ttgaaggccc tgctggaact ccatatgaga acggagtatt caggatgaag 300

ctattattgt cacgcgattt ccctcaatct cccccaaaag ggttcttctt gactaaaatt 360

ttccatccta acatagctac taatggtgag ata 393

<210> 39231
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C5

<400> 39231

ctagagttgt gcccatcatc tctagtggtt aggaatctat tggtgcatct gaccatcagg 60

atcacggtga agatgacgac agcaacggcg atgcagatca gcccttgatc aacacgatca 120

ggtcttccgc cgccaagcta cggtccttga agatctctca acagggacca agcagccaaa 180

aaggggtccc tggcccatcc ggaagcaata gctgagagga tgcatgcagt gcccctcatc 240

gttggtgatg atttccagac attgactgac cgattcaagc agcacagggg gctggcacta 300

acatcagttt gacgaggaca ccattccacg cggagctgca gtcatccgct ggttagctgc 360

ttggtctaat tgtgtaagcg ctgtatatga tttgcacttg ggttctgtga ctccctttgg 420

atgcgggccc ct 432

<210> 39232
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C7

<400> 39232

aatccgaatt gccaggattt tcaacaccta ttttccaagg atgaacattg acgatggccg 60

tgtggttagc aacttcattg ctcaggctgt gcgtggcgaa ccccttactg tccagaagcc 120

aggaacacag actaggagct tctgctatgt cgccgatatg gttgatggtc ttattaggct 180

gatgaacgga aacaacactg gaccgattaa cttggggaac ccaggtgaat tcaccatgct 240

ggaacttgct tagaatgtga aagagttgat taacccagat ataacagtga cgatgaccga 300

gaacactcct gatgat 316

<210> 39233
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C8

<400> 39233

ccttgtagct gacttcaacc acatggtacc atcttagcag agtagcaatg gctatcaaac 60

agagcatcag cttcacgctg cgtgttcttg ctgatctatc cctcctactc ttttgcgtcc 120

tgcttgcacc tgtatgttca gccacaccag ccacagctcc tgctgttctc ctgcaagtga 180

agtccggcct cactgacccc ggaggcgtcc tctctggctg gtcactggag gccgacgtgt 240

gttcatggca tggtattacg tgcctgcccg gtgaggtctc accgggcatt gtgacaggcc 300

tcaacctgtc cgggcacggc ctgtcaggcg tgataccgcc ggcgatgagt ggcctcatct 360

ccatcgagtc cattga 376

<210> 39234
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D1

<400> 39234

cccacgcgtc cgctctttcc cagccctctc tctctccctc tccacccggc cgccaccatg 60

tcaggcctct acagccaggg cttctcccct gcaagaaccc tctcccccca gattaggagc 120

aaccccgacg ctgacagcca gtacttggcc gagcttctcg cggagcatca gaagctgggg 180

cccttcatgc aggtgctgcc gatatgcagc cggttgctca atcaaggtga gagatccttt 240

tttttccacc cctcgcttgc tcactgttgc ttgctgattg gtgacaaatc ctgtgcgctc 300

gagcctccga gggtgttcct ctgcaatcgg gactggggaa tcgcgaggct tcaatgatcg 360

gatggctgct gatctttttt ctgcggcttt tatgctggcg ggggatg 407

<210> 39235
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D10

<400> 39235

cgggggccgg gacggcgtcg gcggcggtga gctgcggcga ggtgacgtct tcggtggcgc 60

cgtgcctcgg gtacgcgatg ggcagcgcgg cgtcgccctc cgcggcgtgc tgcagcgggg 120

tgcgctcgct caacagccgc gcgtcgtcag cggcggaccg gcaggccacc tgcaactgcc 180

tcaagagcat gacgggccgg ctcggcggca gcatcagcat ggcc 224

<210> 39236
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-D11

<400> 39236

acaaaccctn ctncagtgct cttttctttc ttctcgccgc cgcaaccgct tgctagcgct 60

ctgcgctctc atcctcgcgt ccgtggaagg tcgtctcgac atggcctccg agacggagac 120

gttcgccttc caggcggaga tcaaccagct gctatcgctc atcatcaaca ccttctactc 180

caacaaggag atcttcctta gggagctcat ttcaaactcc tccgatgcct tggataagat 240

caggttcgag agtttgacgg acaagagcaa gctggatgcc cagccggagc tgttcatcca 300

catcgtccct gacaaggcca acaatactct gacaatcatt gacagtggca ttggtatgac 360

caagtcagac cttgtgaaca aacctggtac catngcacga tctggcacaa aagagttcat 420

ggaggcactg g 431

<210> 39237
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D12

<400> 39237

cccttgaatg ctttcagaac ccaacttcaa tgctgctgtg aagttaggat ggatgagacc 60

taacacaatt ttttgtcatg ttaaataacc aggccaccaa agagtggcgt ctccaaacca 120

agagcacaga gccagtcttc tccgttttga tattgccatt gttaagtagg atcaacgtat 180

acatgcatta ttgggggtca tttttgggtt tgtcctcacg gataattgat ggaaataaat 240

atgaaagaag ccaatcttgg 260

<210> 39238
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D2

<400> 39238

ctccagaaag acctccactg aatcttctcc ggcaagaact agctggaaca acgatttatt 60

gagatatcct ccataaatca acagtggagc aggatgaaaa ggactccatt gaggaaacaa 120

atggtttaaa tgtggaatct gatgaccagg aaaagatcaa gtacctagca gaagggaagc 180

tggtttcttt ttgcggacag gttttgaaag aggcgtctga tttacagcct agcactgggg 240

aggctgccag tgcagacata catcgtgtat tagacttacg ggcacctgtt attgttaagg 300

ttttgaaagg aatgtgcatc atggatgctc agatcttcaa aaggcacctg aaagagttct 360

atccattaat taccaaactt a 381

<210> 39239
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D3

<400> 39239

attcaagccc tgtggatttt gtcagtgact tgggcactcg cttcctcctc gatccaagtg 60

tcctgaagat gtctgaacct cctcgtgtct tgtcatggat gactaagggc attgcctcag 120

gtcttgatgt tcttttcata aacaaatttg aagaacaacg taaagattat tgggaaacac 180

tatactcatc ggtgcatttt ggtccaatac taatactctg ctcagaggat gatcaacttg 240

ctacatattc agttgttcaa aattttggcc agcatctgct agagcttggt ggtgatgtga 300

gcctaattaa atggcatagt tctccgcatg tcggccacta caagcacca 349

<210> 39240
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D4

<400> 39240

agccagcaca cgcacactgt tctttcgact tccatctcgg ccggagcaga agatggaggt 60

ggctctggga acggccaagt atctccttgg ccatgttcag aacaatatct ccgacgactg 120

gatgaattcc tacgtgtcca gcgccgagct cggcaccaac cttaacatga tcaaagagaa 180

gatgcggtac gctagagtgc tgctggacgt ggccaaaaag agggacgacg tcgtcgccgg 240

ggaccccaac cggctggagc 260

<210> 39241
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D6

<400> 39241

cggacgcgtg ggcggaactc gaggcagtgt atgaggcaga aatcagcgga cgcagccgcg 60

ctcggctcgg ccatgtccga gatccagcgg ctgaagcagc agctggaagc ttcagcagag 120

tctgacgcgg cccgcgcgaa gcagtgcgag tacgtggaag ctgagatcga gggcttgaag 180

caggagatgg agatccgcct agcgaccatt gagggcctga aggtgaatgt cagcgagagt 240

gacagggctg cggctgaggc aaatgccacg gtaaatgaga ccaagcagca gctggagaca 300

gcgaaggcca ccattgactc acttgtagct gagggcgtac gcatgcagga atgcctgagg 360

tcgaaagaca tggagctcaa tgagtccaag gctctcgtag catcgctcca agaagatatg 420

gagaagtcac atgacac 437

<210> 39242
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D7

<400> 39242

gaacagctga aaaggcttca attgagttga ctgtattgca aacagcgatg atgctgccta 60

ttggttgctc aaagaattct cagcaaactc actgcaagag aaatttcaaa agcttatgct 120

caatgacatg aaagagctct caagaattca agctaaagtt ggtctacaga tgccactgat 180

gtctccgctt gattctgatg aagaaaagta ttctgtggct tctgattctg tttcttcagc 240

tgatcatgag aaggttcaac atggtggaaa ctcatctgac tcagagaata ttgattgtga 300

tcataccact gaagattttg aatccagtga tactctctca acgaacagtt gatccctgcc 360

tccccagcct caaccacctg tgcctgctca tatggtctcc tgatatcgat ttatccgaac 420

tggagagc 428

<210> 39243
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-C11

<400> 39243

agatgatagt gtggaagcag ccaaaggggg ttatccaggg gaaggtgaaa atcatatcta 60

taagcaaaaa taaaaggcat caagacagaa cagctgctct tgaagtatgg gagcgcttgg 120

aggaatttat gcgggcacgg acataattga tgtgcagtca tgataaaaga caaccatttt 180

actagattca ttcgcaatat tggtcggtga ctgtagatgg cagaatggaa tggctgggag 240

cccatgaaga ctgcaatctt tgtacgctag gatgtatttg taatgttgta cttgcaaact 300

gctaacttat ttctagttta agtatatgag acaattttgc aagttgcgcc tgaaagtata 360

ttttctttct acgtctctat gttctggggg tcgcttgctc tcatnctgcc attatctgag 420

gtctatgttt taaatttgtt tttctatat 449

<210> 39244
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A5

<400> 39244

acagaggaaa gcctttctgc agtatgtgaa agagtgcttg atagatgcct ggctccatcg 60

accatgggtg gcgagggatg cgataacatg acgatgatct tggtgcagtt caagaagcca 120

tttgctcagg taaaggatgc cagtgatgcg gaacaactaa ctggagatgc gggatgctct 180

gagacccatg gggccgagga gaatggctct gacaagcaga tatagcgaag acatggactc 240

ttttggagtc ttggtacatg gcctgacgct gaacctgggt aaaacaggag tacgatgttg 300

caatgtacat accaaccatg cgctgagttg gcgtgaaaga tatattcatt gttccactgt 360

tgtctttaac caaacgtgct tgtttcttcc ggttgtgatt tttggtgatc tgacaatatc 420

taattataca tttgggtgg 439

<210> 39245
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A6

<400> 39245

acccacgcgt acgtcctatt attcccccac tcccccgggt tataatcgcc accaccagac 60

cacaccacag cagccgttta ttacactgga gccgcgccca caacaaccgc caaaaccgct 120

agtatcatgc cgcccacaac caaaagccat accagctaca gaagacaccg ccctcgacgc 180

caccgtatgc ctcaatagca atcaagacga agagaaaccc accgaacccg ccctgctcca 240

gaaacccaaa cttcctaagc tcaagtcgta atagcatcag ctacacaact cctagcaaca 300

cacaagccca ctgtacacct acgt 324

<210> 39246
<211> 75
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A7

<400> 39246

ggcccggacg aaccgccccg acccacccac gcgttcgtcc actcatacaa aaaaaaaaac 60

aatttaatat tcaac 75

<210> 39247
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A8

<400> 39247

ccgggaagga atggccggac ccacgcgtcc gcggacgcgt gggcggacgc gtgggctagt 60

tctatatcgc 70

<210> 39248
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A9

<400> 39248

gcgagtggag cttcatcctc tcggcgccgg tcatgggctc gtacgtggcg gtcggcttct 60

cgggcaaggg cgccatggtg gggagcagcg ccgtcgtcgg gtgggtggcc aacggcaggg 120

gcaccgtcaa gcagtactac ctcggcggga agagccccga ggagtgcgcc cccaacaggg 180

gcctcctcaa gctcgtcagg aacaggaccg ccgtcgcctc gcgctccggc cgcctctacc 240

tcgccttcca gctcagcacc gactacccgc agccgtacct gatctacgcc gtcgggc 297

<210> 39249
<211> 284
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-B1

<400> 39249

cccacgcgtc cgaagtaacc acagaaaatg gcgtcacttc tccgccctct cgtcctcgtg 60

ctcctgatcg cctcctgcgc agcgcagcag tcaccgccgg cgcagccccc gccaacgccg 120

aacgcgccac cggccaactc tgccgcccag gcgcctncag ccggaaaccc ggcgccggcg 180

ccccaggcgc cgtcgggagg caagaccgca cctgcgccca ccggcacttc accttcgggc 240

ccgaccactt cggcccccgc cccgaccaca acctccccgg gttc 284

<210> 39250
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B10

<400> 39250

cccacgcgtc cgcccacgcg tccgcccacg tgttcgccca cgcgtccggg caggaattgt 60

tggcaaatat ggaaccaggt atggtgctag cttgcgtaag caaatcaaga agatggaggt 120

atctcagcat tccaagtact tttgcgagtt ctgtgggaag tttgctgtga agaggaaagc 180

agttggaatt tgggggtgca aggactgtgg gaaggtgaag gctggtggtg cttacaccat 240

gaacactgct agtgcggtca ccgtcaggag cacgatccgc cgcctgaggg agcaaactga 300

agcatgatat agctctttat atgattgggg tttcctgtag ttgctcttgt caggcatgtt 360

gtgggggcct tatctagtgg aaatgtggaa tcactgtact ggcttgtttt gacgagacaa 420

tgctccttat atttggttta tgctct 446

<210> 39251
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B11

<400> 39251

gccagtggtc gtaccacagg tatcgtgctc gactcgggaa gatggtgtca gccacactgt 60

ccccatctac gagggatacg ccctcccccа cgccatcctt cgtctcgacc tggctggccg 120

cgacctcacc gactacctca tgaagatcct gactgaacgc ggctactcct tcaccaccac 180

tgctgagcgg gaaattgtca gggacatgaa ggagaagctc gcctacattg ccctggacta 240

cgaccaggag atggagactg ccaagaccag ctcttctgtt gagaagagct acgagctgcc 300

tgacggacag gtcatcacca ttggtgctga gcgcttccgc tgccctgagg tcctcttcca 360

gccatccttc attgggatgg aagctgctgg tatccacgag accacctaca actccatcat 420

gaagtgcgac gtggata 437

<210> 39252
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-B12

<400> 39252

attgattcat atagcatctt cacacctaca tgccatgcat cttttgcctc ctcaaagaac 60

aaagtgatga aaaggctaca ttctgctgga aaaatgggag aacagtatga tccatgcact 120

gagaagcatt caactgtata cttcaatcta gctgaggttc agaaggcact tcatgttaat 180

acagtcattg gaaaatcaaa atgggagact tgcagtgaag ctgttaatac tcattgggga 240

gattgcgaaa gatctgtgct gcatatctat catgaactta tacagtatgg cctccgtata 300

tgggtgttca gtggagatac agatgcagtg attccagtga cttcaactag atacagcatc 360

gatgctctca agcttccaac aataactcca tggcatgctt ggtacgacga tgacngtgag 420

gtcggtggat 430

<210> 39253
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B2

<400> 39253

cggacgcgtg ggatctctca aagctacgtg tgtttcatgc tgatgaaact ccactggaag 60

taccgcccaa agaagttgta aagctagggg ctcaggagct ggttaattat atgaagaata 120

tggttgctgc aagggaagtg agccagaatc aaacagataa gaggagcttc tggacctggc 180

tccgctcact gtttggttgt tacaaaaaga atcaaggatt gggaccagtt ccagcctagc 240

tgaaccatat cgtccgcatg tattgtcatg aattattcag ttttgctcca tctctcaagt 300

cagcgacgaa atgaggcatg actactatta ttatttc 337

<210> 39254
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B3

<400> 39254

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgtg accgtagatg 60

tgaaagcaaa ctcagagtca aatatcatta ctacagttac tgtcaatgag attgcaacac 120

caggactgaa gactatctta agctttgctg ttcctgatca gagatctgga aaggttgagc 180

ttcagtattt gcatgattat gctggagtta atgcaagcgt tagtctgaca gccaatcctg 240

tagc 244

<210> 39255
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B4

<400> 39255

gacgactaca agttcaacgg tctgggctgg ctcttcctgg gtgttccaac gagcagctcg 60

ttgctctaca aggaggagtt cgggaagatg aaggagagag cgccggagaa cttccgggtc 120

gactacgccg tcagccggga gcagacgaac gcggcggggg agaggatgta catccagacc 180

cgtatggcgg agtacaaaga ggagctgggg gagctcctga agaaggacaa cacctacgtc 240

tacatgtgtg ggttgaaagg catggagaat ggtatcgatg acattatggt gtcactggct 300

gaaaaagacg gaatcgactg gttcgactac aagaagcagc tgaagagggg agatcaatgg 360

aatgtggagg tctactaacc gctgaatttt gcagctgaca 400

<210> 39256
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B5

<400> 39256

gatcgggcca tcggggaagc gagggagctc acgcggcgcc atggacgagg aggagcacga 60

ggtttacggc caggaaatcc cggaggacgg cgacatggac ggcgctgacg ttgatatggc 120

tgcctccggg gatgacgcgg cgaagctgca ggagctcgac gagatgaagc gcaggctgaa 180

ggagatggag gaggaagccg ccgccctccg cgatatgcag gccaaggtcg ccaaggagat 240

gcaaggaggt gaccctagtg catctacagc tgaggcaaag gagcaggtgg atgcccgttc 300

tgtgtatgtt ggaaatgtgg attatgcttg caccccagaa gaagtgcaac agcatttcca 360

agcttgtgga actgtcaaca gggtcacaat cttgactgac aagtttggac 410

<210> 39257

<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B6

<400> 39257

cggacgcgtg ggcggacgcg tgggcggacg cgtggggtgg ctactccatg aatgcgatcc 60

atggctctgc attctccaca atccatgtga cgcccgagga cggtttcagc tatgccagtt 120

atgaggttat gggcttggat gccactgctc tgtcttatgg tgaccttgtc aagagggtcc 180

ttcggtgctt tggcccctcg gagttttccg ttgccgtgac catcttcggc gggcgtggcc 240

atgccgggac atggggaaag gcacttggtg cagaggtcta tgactgcaac aacatggtgg 300

agcaggagct gcctggaggc gggctcctcg tgtacc 336

<210> 39258
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B7

<400> 39258

gctgggtgtc agcagtcaca ccattgtcga ggggtgtgat gttctttttc ttgaatggtt 60

ggtacctggg gttacagcag ttcacctgtg tttgatacat ctgccttgtg acatttttgt 120

gttgagttgt cggaacacat ctattatcat ctctaccata aaattgttgt ggccct 176

<210> 39259
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B8

<400> 39259

atacctattt acataacaaa tcctatggtt ggtcgcaaat tgggggaatt cgtgcctact 60

cggcatttca cgagttatga aagtacaaga aaggatacta aatctcgtcg ttaattgaat 120

tcagaataga aagattcaga ataaacaaaa tttataggat tcaaataatc aaataaagta 180

aaggtaggcg ggtaataacc ttatttatga caagtttcaa attggtaaag tataccccta 240

ggataaagaa gaagaaaggg ctgagaaaac tcgcaagaaa agttccaacc gatcgtctac 300

ttaaattcga acgggttttc aaagcacaaa aacgcataca tatgtcttgt ttcaaagcac 360

aaagagttct agatgagatt cgctggcgtt acta 394

<210> 39260
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B9

<400> 39260

cggacgcgtg ggcggacgcg tgggcggact cgtgggccac aagaaggagg atgagcacca 60

gaagaaggcc gaggagcacc acaagaagga ggagggggag caccacaaga aggacggcgg 120

ggagcataag gaaggcatcg tggagaagat caaggacaag atcaccggcg agcacggcga 180

caagtccggc gaccacaagg aaaagaagga caagaaaaag aagaaggaga agaagaagca 240

cggcgagggc cacgaccacg accacgacgg cggccacagt agcagcagca gcgacagcga 300

ctgagatctg gtgtcgcagc acaggtgcaa cacaagtatg cttgctggat ggaggattca 360

taccagctga tgctgatgta gtgtttcact ggtgtcatgc atgcatgtat cgggctatta 420

taatcaaaaa gaaaaaagaa a 441

<210> 39261
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C1

<400> 39261

tctaaatcat gttagaggtg catactcatt tgaggattta agaacattgg gtgacatcac 60

atgctcaact ttcagagaag catgcgaaaa aagaggactc atagaggttg acatgtcact 120

tgatgactgc ttgagtgagg ctgcaacctt tcaaatgcca actgctctgc gaaggttatt 180

tgcaacaatt cttgtatttt gtgaggccac taatgtacgt ggactgtggg acaaacacaa 240

tgactcaatg tctgaagatt ataaccgaga caatcctaaa tcgacatgcg tacaacaaat 300

ggtccttaaa gacattcggg agttggttcg gtcgatgggg aaggatatca aatcttatga 360

tcttcctgag attaatgata caggtgaatt ttgcaatgat ataatgagag agc 413

<210> 39262
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C10

<400> 39262

attgaccaac tagcagagat gttcggtgta tcaacagttg atgtttggac ttcatatgtt 60

gctggagaaa gtgaggaacc aacatatggt aatttggaca tgggtgagga ggaggatgaa 120

gtagatatta ggagtccatt gagcagcagt agtaagaaga ggactggcag caatactgat 180

acagccagta gtcctcctag gaagcataaa agtccaatga ttgaatgcga agctttgata 240

gacaccctac aatctttaaa ctccaaagac ttggatgtgg ccaaacagat acaagaagac 300

cacatagcta aaaataagaa gttagaacag gaaaaagaga ataaggagat agataaatgt 360

ttcgaactgg ccaaagaatg tggagcaact gaagagacag aggagttcta tgt 413

<210> 39263
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-H10

<400> 39263

tttgggctgg tttatgtgct tggacttggc tcgacgccct cgaagcagcc gccgtcgatg 60

agcccgagca taaggacttc gccgacggtc tcgcgcttaa gtattagggt acttgacatt 120

ctcccggaga cggcctatga tcggcgcctt gttctctcgg aattggcctc gccggcgtta 180

ttacttgcgc tcatactgag tagcatgaga gggatcttct caagattggt agggacctat 240

aggatgtttc cgtcttgtcg gccgacgccg tgtctaagtc tcttaagacg taagagcata 300

tcggatgtct cgtttttatt gctactatac anaccccgaa gagcgcccca gaacgagccg 360

aggtgtccat ataaa 375

<210> 39264
<211> 369

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H11

<400> 39264

tggctctgga cctttgggct ggtttatgtg cttgtttatg tgcttgtact tacttattta 60

tttatctaga tttagtcgta tttctctgtc ttcccagcgt gttattgttg gttacggtcg 120

ttcgtttatt gcttcttttt attatacggt tagcttagtg tatagacaca gtagtaacta 180

tccaacgtca gtcttctctt tttgcgagtt gcagtcctat ctcgtacgta tcttggttac 240

gggtttacgg tcacacaagt tgtcgagtcg tgacgttata gtattgtgtg gttctaagta 300

gtcttccctc ctagtagtat agtcagtcag ttacggggag taaggggcg gtgtctgtgt 360

cgtcgtctc 369

<210> 39265
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H12

<400> 39265

tttgggctga tttagtgctt ggagggccac actacgcaac ctctcaatac ccgtcagaac 60

aggaccgaag gcccacgagg tcgccgggcg ctacgcctag atggaataca aaaaaaaggg 120

tggttgtctc agaggactta agtccatgca tgtgcgtacg tgatgctaca gtctcctcac 180

agcgctattc aaacctaacc tatcggttga tgccccataa tgctacgatc gggaaaattt 240

cggtgccatt taatccaaca gttccgtact atacttattc cctgttagtc ggtgcaacag 300

tgaagaggtt tgtattgact gtttccttta atagccgtgt aattcgaac 349

<210> 39266
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H4

<400> 39266

gagacctgga acttgttgcc aaaagtatct agtcttcaga cctcaacttc tcacgttacg 60

gggacacctt ttatgaggtg gtgcttggtg gaaggcgcac tcatccaagc actgtaatac 120

ctgaataaag agaccgacac ccttattcgg tgttagattg tgcgtcacac cgtgaagcaa 180

tattgccttt cgtactctat atccagaaaa cattgcgcag gaggcctttc ttaataaaga 240

atcttgaaaa tgttatgcgt aaattcctgc aatccttgga gttctttgag gaaaatgaga 300

ggaagaaact cgccatattc acagcccttg cattttctca g 341

<210> 39267
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H5

<400> 39267

tccggactag ctttagatca cacggggtgc cattgactct aggtcgcgaa ggggagggct 60

ctcaaaacac tatctgcctg caaccgacta tgaacacctt caagctgaga tttcaccgtg 120

ctcagcgatc aagccaatta cagatactcg acaagcttcg cacatctact agacatacca 180

ctcacgcgcc tcagtaacca gactaataga cgctccctgg tgtcagtatt ctacaccgac 240

ttatgcatag cttcctgcta cgacctaacc ggtgacatcg tatgactgcg c 291

<210> 39268
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H6

<400> 39268

gctgaaatgt agtaatggct gtggctgact ctactgctcc atttccctat taatggagct 60

ggttgtgctt tactgaccaa aggtttcgag tgtaacaaga ttttgttcgc tagcaacttg 120

ctgcaactgc aaccaaactc ctttctgata tgagataatt aggacaaaac aacagagcta 180

agttgctttt ttttggggtc atgttaaaca atgtatgcag tattgctagt gcccctcttg 240

aaaacagtta ctgacaacca tatgctgtga aaaataaatt c 281

<210> 39269
<211> 455

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-H7

<400> 39269

gaaaggggaa gcccgccgcc gcccctgcct ttagcaacca gcagatcggg acctctgggc 60

tgcgcaatcc atccatggcg gaggaatcag gccgtccctt gccaaagttt ggtgaatggg 120

atgtcaacga tccggcttcc gcagactgat ttactgtcat attcaacaaa gccagagatg 180

agaagaaggg tgggaatggt caagacacag actcaccttc caaggacccc aggactgaga 240

gggtggagtc ttatgctgca aaaccaagca cgaagaaatg gttttgttgt gtgacagcca 300

gccctacgca atcctgagga aggcaattgc atgcgctgga aatactgccc ctttaatttt 360

ctatacatac tatccattag acactgtana ggtacccatg gctctctggc ttccagatgg 420

gtgtctcata aaactctggc gtgcatgtat gtatg 455

<210> 39270
<211> 312
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-H8

<400> 39270

gccatgccat ctcatatgcg acaagcgaat catagcactg gcatgagcat ggaccggatg 60

gggcggcgtt acatgtgctt gatgatcgat ctggctcttc tggccgccgc ggcgtcggtg 120

gactcgtggc tgtacgagaa gttcacgact tgagggaact tgcgcgcgga ctacaacgtc 180

gcagggcagc acgtgacgtc tctgatcctg acgcagcagt ccggcggcgc cttcagctcg 240

cggcagaagt acctgtacgg ngagttcagc atccagatga agctgatccc gggcaactac 300

gcgggcaccg tg 312

<210> 39271
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H9

<400> 39271

tttgggctgg attatgtgct tgtttatgtg cttgggtttg tgattggatc tccgttctgg 60

taagtcttat aagttcgagc tacgcatgtc gtaagtatat aaaggagata aaaccaaggc 120

ctatcactgc gggatatcga tcgacggact agcccctgac ctcagtcacg atagaggcga 180

tttgcccgaa cctatttccg gaaacggtta agcgacaaaa ggccgggatt aaggaccgtc 240

tggcacgcgt gcgggcgaaa agaggaagtc aaagacattc gtaaagacgg gccacggcga 300

gtgaggtctt ttattaaaga ccttaggcgg agtaatctcg actccttata tggagtccac 360

tgttgctaat gggaagatac ttggtggcgt aaaggtagag agcgacagcg agtctcgaca 420

taacgtaccg gagagcctta aagtctgaga ggagcagcag tagtgctgta c 471

<210> 39272
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A1

<400> 39272

cccacgcgtc cgggtgggtt ggcttctcct tcccctccgg ttcgggttcg ggttcgtgag 60

gttctccggg gttcggtttc gtgggtgagc ggatcgagat ggcggcgtcg gatgttgagt 120

accgctgctt cgtcggcggc ctcgcctggg ccacggacga ccactccctc cacaacgcct 180

tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt 240

cccgcggctt cggcttcgtc accttctcca cggaggaggc gatgc 285

<210> 39273
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A10

<400> 39273

cccacgcgtc cgagaacccc cagtcgccca ccatatcact tgttaaactt tgttgagggg 60

tgatggcggt ttctttcgca aacctcaaca ccgaggcagg gcttaaaaag cttgatgagt 120

accttctcac tcgcagctac atcactggct accaagcttc caaggatgac ttggctgtct 180

acacttcgtt ttcgtctgct ccctcgtcca agtatatcaa cgtagcaagg tggtttaatc 240

acattgatgc gctcgtgagg ctgagcggaa ttactgcaga gggccaaagt gtgaaggttg 300

aatcctcagc agttccttca gccccaactc cagatgttgc tgaagcacag gccccagctg 360

ctgaggaaga ggacgatgat gatgttgacc tttttggtga ggaga 405

<210> 39274
<211> 484
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-A11

<400> 39274

cgggccgacc gacgcgtccg cccaggcgtt ctataacttt cagncgccta atagatcact 60

cgacaaaccc cgnccanggg ggagcgctgt ttctaacgca agcggaacac ctaagcacga 120

ctcaaaaagc tcgatgagta ccttctcact cgcagctaca tcactggcta ccaagcttac 180

aaggacgact tggctaggta cacttcgcat acgtctgctc cctcgaccaa gtatatcaac 240

gtagaaaggt ggttcaatca cactgatgcg cacgagaggc tgagcagaat tactgcagag 300

ggccacggtg tgaaggttga atcctcagca ctaccttcag ccccaactcc aaaatgtgct 360

tgaagcacag gccccagctg ctgaggagga agacgaggat gatggcgacc cttttggtga 420

ggagaccgaa gatgagaaga aggctgctta aaagcgtgct gcaactggca aggcttctgg 480

caag 484

<210> 39275
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A12

<400> 39275

ctgagctcca aagaatctag cagctaggag caggccgtgt atacgccatc caccacggca 60

acatgtgctc cggctcctgg tcctggagca gcagcagcag caagaagcgc ccgtctcttg 120

ttgtcgtcaa cctcaagcgg cagcagctgc agaagacgcc gccgccgacg ccgcctcgtg 180

cctcagttgc tatcaggagg aagaggtacc cagctaaccc gccctgctcg agtttcccaa 240

gcttcctctg ctcaagtttc agcagcatca gcgacagttt cctgcaatca cacaagtaca 300

ctgtacacgt acgtacgcag gctgaggctg aggaagttgc gagccggagc agaggccatg 360

gagatggtga acctgaagct ctacctggag aaccggtgca tcatcgcgg 409

<210> 39276
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A2

<400> 39276

gccaccgacc cacctctctc atagcactag cagcaatgga ggtggagatc ctcgagtcct 60

gcatggtgaa acccagcgac gacataggga cgccgccgcc gcccatgcac gtggtctggc 120

tctccaacct cgatctactc gtggccagga gccacacgcc caccgtatac gtgtaccggc 180

ccagccctga cccggac 197

<210> 39277
<211> 105
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A3

<400> 39277

cccacgcgtc cgcccacgcg tccgcctact cgtccgaaaa aaaaaaaaaa aaaaaagggg 60

ggattattaa aatagattgg ggggttaata aatttaagat gggtg 105

<210> 39278
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A4

<400> 39278

gaggaagcaa aggcacatga ccgtcgtctt cgggtgggac gacgagtccg tcctcctcga 60

tgcgatggtc gttgaggcca cgcccgtctg tgagtcccgt cgcaagaggc gagcctccac 120

ctgctccaac aatgacggcg ccggatccaa caccaaatac ggtgatacgg ttgacaggtg 180

cgtttgttag ctgttgtggc atgctgggct gattttaggc caccgcctgg tttcaacttt 240

caagtcatgg aatcggtgct cagggctcct ctcttccacc ctgcgaaggt gacttatagc 300

aatggtgcaa acagatgggg gacaccacat catgcccatc cgtgagatct tggcctcaac 360

gtcgattgag aagatgacgt tgcaaatatt tcagacttgt caagataaga agagacgaag 420

gaagaacaat caaatgagaa acctttcag tcagtataga atga 464

<210> 39279
<211> 481
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H1

<400> 39279

cggacgcgtg ggcggacgcg tgggcggact cgtgggcagg gcaaagcttg atgacaatgc 60

tggacgactt gacttcaccc agaagcttga ggctgcctgc gttggagccg tcgagtctgg 120

gaagatgacc aaggaccttg cccttctcgt tcacggatct tcaaatatca cgaggagcca 180

ttacctgaac acggaggagt tcattgacgc tgttgctgac gagctcagat caaggctggc 240

ggccaactcg aacctttgaa atccttgccg aagttgtggt gctttcctgc gcgacgcttt 300

cgaaccgttt ttattatgtc gccattttct ttccctgtgc caccaccctg aatgaagaag 360

gcctgagcta ggcgaacatc tgcaggccgc agcagtatgc caaatcatta tcattaccgt 420

tgccattacc aattggagat tgccgtagat tccgcgatta tgggaactca tttacctgat 480

t 481

<210> 39280
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F4

<400> 39280

aactaacttt ccttgtgaaa atggaaatta tcttcggtaa gccatgggat tgagttggat 60

ggttagagag gattttagtt ccaaactagc cctcaatcct atggattcta ggagaggatt 120

cgagtttcca aactagctgc ggtaatccaa gggatctagt cagattttcg gagaggattt 180

gggtttcgaa actagccctc aatcccatgg attctgggag atgattgcag ttaaaaatct 240

agctcttaca tgatttatta cctgcatttg gtctttacat gctacagact agagtatatg 300

gattttgtag ggcat 315

<210> 39281
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F5

<400> 39281

cggacgcgtg gggcgagatg gcggttgcct tcggggacat ggcggaggag gcctacggga 60

agaccagggc gcgccgcccg cccggccccg gctccggccc tggtcccgcc ctcgtctcgc 120

gccgcgagca cgtgtccatg cgcgacgggg ccggcggcgg acaccggacc tgcgtcgtcg 180

tgcgcggcag ggagcgggag atcgcggtgg atctcgtctc gcgcgcgcag ggccagggcc 240

aggggcggga gcgggacagg gccgaggtcg gcatgtcggt ctccgtcgac ggcgatcgcg 300

tgctccacgt ccgccgcctg cgctggaagt tccgcggcac cgagaagctg gacctcggcg 360

ccggcgaccg cgtactcgtc tcctgggacc ttcacgactg gctctttccc gcgcgcgaag 420

cctctccacc c 431

<210> 39282
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F6

<400> 39282

cccaccatca cctcccgcag agatccagac ttccgtgcgc ctcgtgctca ccggcgagct 60

cggcaagcac gccgtctctg agggcaccaa ggcctgcacc aatttcacct cctcctatgc 120

ttgcacgctc gaccttgcaa gctcttctgg tgctgatgtt cacactgagt tgaagttaga 180

tgtcgctggt ttctctgtca gagctgctct atttctgtag gaactcctta atgtaaccca 240

ccagggcctg gttaattggg aattattaac actttggtgg tgatcactta tggttcaaat 300

tcttaa 306

<210> 39283
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F7

<400> 39283

agttcctgag gttcaagccc gagccggtgg tgatctacgc cttcactagg aacgaggagc 60

ggaagcaacg catcatatac gagacgtcat gggggagcat cacgttcaac gacgccatcg 120

tgcactatgg cctggacagc atcccgttcg gtggcatggg gcacagcggg ttcggccagt 180

accacggcaa gtactcgttt gacatgttca gccacaagaa ggccgtgctc aagaggagct 240

tcctggtcga gttcatgttc cgctacccgc cgtgtgacga gaccaagatc ggaatgctca 300

agcgcgtgta ccgcttcgac tacgtcttgc tcttcctcgc gctcatcggt ctcaggagat 360

gaagcagccg gcggagagtg cgtgaacaat cgagccaaca gaatttgcac tcacaccgaa 420

cacacagttg ctagtggtca attgtcggtc atactgatcg aagaatatgt a 471

<210> 39284
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F8

<400> 39284

gcatgaacga ggggagattg gatgatccgt ccagcgacgc tgatgatgtg gtcactggtt 60

gggaagacac ggatggtgac tggatgctgg tcggcgacgt accgtgggag atgttcgtcg 120

agtcatgcaa gcgtctgagg atcatgaaga gttctgaagc cataggtctt gcaccaagaa 180

cgaacgacaa gtgcacgaac aagagctgaa gaagatgcag tgttaaagat gttgcccatt 240

gtatcacaag aatggtcccc ttgcagtgcg ctgccgattt gttcttccta ctagaaatat 300

aacgcgtttt aattactagt tgcagggaga cctgtcttgc tcaactcgtt catggaccag 360

aagcaataat atatccgtgt gtagctggat tggcgttatg tcatgtcccc taccgtgact 420

accagaatct acttggtgat tttatcccag tgctgctcaa taagtttatg cgatt 475

<210> 39285
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F9

<400> 39285

tctaataatt ctaatgagaa ggctatgaat gaacagccga agagactgtc ccacgtttcg 60

cgtctgtatc acggaacgac atctgacgcg gcggtttcga aaatgtataa atcgagaagg 120

tatgtacggg cggcgcccac tgagaccata atcgtcatta acgt 164

<210> 39286
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G10

<400> 39286

ggacctttgg gctggtttat gtgcttgttc tgagtatggt actgagttcc acggtatcac 60

gtttagcgac attatggccg gtgctgtaga cgaggttcct aatatgcctc ctagtgagat 120

tggcctcggt aagtacgcgt tgagggttac tcctgctgat tccgagttta tcgctaccga 180

cgaggcctgt atcggtctgc attgttaatc tccttattta gagtagtcta ctctgggtaa 240

ggaagatgta gtcaataatc ccgtttgcgg ttatcatatc gccgggaagg agaccgctga 300

ctcacgttcg gattgcgcgt gtaagtccgt agataatcgt atcgggtcgt agggacctcc 360

ggcgcctaac gtcgccggcg gcgggatcgg tctcggatcc gggctatccc caccggagtg 420

ttccctagcc gaccacggta agaaacttaa gtc 453

<210> 39287
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G11

<400> 39287

gagggatact ccagatgatt ccgagtttat cgctatcgac gaggcctgta tcgctctgca 60

ttgttaatct ccttatttat actagtctac tccggattac gaagatgtat tcaataatcc 120

cgattgtggt tgtcatatcg ccgtcaatga gaccgttgac tcacgtt 167

<210> 39288
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G12

<400> 39288

gacctttggg ctagattcag tgcatgagaa gataaccatc tacacaaatc acacacgata 60

taaagagaag ataaccatct acgcctagca agccgtcccg actacagata agggcagaca 120

tacgctgtac cgaggtagtt acgggaacta taaggcgcaa atctctatga cctaaggtat 180

tcgattataa atcgaagaca accactacgt ggcgcctaga cacggcgcaa atctctatga 240

cgtaacccga tctcccgcat atcgtaaaca cataaccact acgtgcgcct agacacggag 300

tagcccgcgt atcgtcttat actatactca taatcgctca gaagaaaaaa aaagcgtcta 360

atcaacaagt ggcctcctta aacagaaaga caatcgtcca acccatcaga tatacgctga 420

cttttgctcg aattagtttt taagctccca gtcccgc 457

<210> 39289
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G2

<400> 39289

tcgcccacgc gtgcgtctgt ctgtcgctct cgctcttaga cgactgggcc gccgacgctt 60

ggtgctgagg ctttcgttgg tctcttcggc ggcgacgagc acccaccagc agttctgtag 120

aaatggctga tggtgaggac atccagcctc ttgtctgcga caatggcacc ggaatggtca 180

aggctggttt tgctggggac gatgcaccaa gggcggtttt ccctagcatt gttggccgtc 240

ctcgccacac tggtgtcatg gtagggatgg gacagaagga tgcatatgtt ggcgatgagg 300

cacagtccac gagaggtatt ctcacgctca agtacccgat tgagcacggt attgtgagca 360

actgggatga catggagaaa atctggcatc atactttcta caacgagct 409

<210> 39290
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G3

<400> 39290

cggacgcgtg cgcggacgcg tggggcacgg tggactacta tcgcgatcta ccacacttgg 60

aggagatgct gaacttgcaa cgttccaccg atgtaccaga tcaaggtcta ctgtgtgact 120

tactttggtc agatccacga aaagatgttc aagggtgacg catgaatgat agaggggtct 180

gatatacctt tggtgcccac taggcttcag acttcctgca aaagcatgat cttgatctta 240

tttgacgcgc tcatcatgtt gtcgaggatg cgtatgaatg ctttgctgac agacagcttg 300

tcaccatatt ctgggatccc aactattgag gtgaatttga taatgctggc tcaatgatga 360

gtgttgacca aactttgatg cgtgccttac acattctgca acctgcttag agaaaa 416

<210> 39291
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G4

<400> 39291

cagacgtgca atacagtgac ctgaccacca tgcgtatcca ccacaactac tccacatgat 60

ggagaaccta agatcctgca gaggagagga agaggagcat gaagaggaga tggtcggcac 120

cgttggcaag aggccagtag cgctagcaac ggactgatcg gagggtagcc gagcggtcct 180

gtatacctct gctgccaacc tgctacgaga catcgaccac cagctgctgc tgcacgtcat 240

caatgagccc gactacgagc agaacgaggc cattctatgg gaatccaccg gat 293

<210> 39292
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-G5

<400> 39292

cccacgcgtc cgcggacgcg tgggcaaatt gtcccatccc gtgctccttc ccgatcgcat 60

cgggtgctcc tncccgatcc catgcctccg ctccagatcc gcacgccgnc accggatccg 120

cagccagcgc ggccggcatg gaagagacgc cgccggggca gcgcccgcag ccgccgccgg 180

cgcacgcgtc tnnctcgttc gcctcggcgc ccttcacacc gncgncgcgc gtcttctctc 240

caggcctcgc cgccgcgcgg ggcacgccca gccccggctc ggggcccggc cacgcgctgc 300

cgcacctcag cacgccaccc ggcccggccg tcttctcctc gccgctgcgc cctgcggccg 360

tgccct 366

<210> 39293
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G6

<400> 39293

cccacgcgtc cgcggacgcg tgggctggtc tgcccggacg ctcggatcgc cgactagttc 60

gacgtgattg ccgggacgag caccggcgcc ctgctcgcgt cgatgctggc ggcgccggac 120

gagaacaacc ggccgctgtt cgccgacaag gacctcacca cgttctacct cgagaacggc 180

ccaaagatct tcccacagaa aaaggctggg ttgctgacgc cgctgaggaa cctgctgggc 240

ctggtgcggg gccccaagta cgacggcgtg ttcctgcacg acaagatcaa gagcctgacg 300

cacgacgtca gggtggcgga cacggtgacc aacgtcatcg tgcctgcgtt cgacgtcaag 360

tacctgcagc ccatcatctt ctcgacgtac g 391

<210> 39294
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G8

<400> 39294

cgacgcgtgc gccttgctcg ctcgctcgtc gtctgccgtc gttctaggtt tagaggcagg 60

tgaccagcgc taggagggcg cgaagtcgag tagacggtcg ggcctctccc gttctccacg 120

gacggctagc gctactggag gcgacgcctg gacggcgacc ccgcacactc acagccacac 180

cctccacctg tgtgactatt caagggctta ggccgagccg cccggccaat cgccgtccgc 240

cggaccgctg aggaattttt ctttctcgtc aaaagttact gcattcattt tacagtaatg 300

gctatggggt tgattaatgc taatcctata atccatgaga aaaaagagag gcgtgccaga 360

caggcaccag agaccacaga tgaaaatgca gcagagccca tagatcagct ggaaatattt 420

gatcacatta gagatataaa ggatccagag cacccgtact cacttggac 469

<210> 39295
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G9

<400> 39295

gacctttggg ctggtttcag tgcttgtgtc ggtgtcgcta ctttagaggt tcgtaccaag 60

cctggtgtca atcgcggttt cgaggtcgct cggcctaaga ttggtgtgtc gtcttcggat 120

ggtaatattt ctaatcatcc tggtaatagt acttttacta attcggcggc ggttgcgact 180

gtggaggcta cttctgctgg tggtgttgag catcattgga ctattaatgg atcggattcc 240

gaggataagt cgtattttgg cgggtttcct gatttttcgg gttcggttag tgattttgat 300

taggttgcta cttctaaggc gaaggagact aagaatggtt ggtcggttac gcctcttacg 360

cctgttcctc ctacttaggt tcatgctatt ggtgaaggtt ttgcggagaa ttctgttaag 420

tattctagtg attttcctgg taataattc 449

<210> 39296
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F3

<400> 39296

gacaaacgta gatttcgatg aggaccattt tgtgatttca gaagatggat catatacagg 60

ggaggagatt catacattac gaggatacca tgggaggcat gagccagtgg tgccatatgt 120

tgaggcaatt attgaggatg atgctgatgc tgatgctgaa ggggatgcca gttcatcagg 180

gtctactatg gacactgaaa gtgcattaga tgttcatgaa gatgcaatcg agttcgaatc 240

agccgacggc catgaatgct atcttgagaa t 271

<210> 39297
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D8

<400> 39297

gaaggcactt ctgatgtcta catcataaat tacctgaaat ttaaggtctt ggtccatgaa 60

tgggaaagag gcgaagtaaa ggtagttggg actgcggaag gaatggaagt gatctcagag 120

actgacaaag atgccaattc tggatatgag attgtgggat ttgaaattgt tccatgcagc 180

gtgaagcgtg atcctgaatc catattgaag cttaatatgt atgataaagt cgatcctgtg 240

aactgccctg tggagttgga aaaatctcaa ttggttaggg agaaagagaa gattcacttt 300

acttatgagg ttgaatttgt aacagtgata tcaggtggac attacggtgg gatgcatacc 360

tgaagatgga gggttcgaag attaactggt tttcaataat gaactctttg atggtaattc 420

tatttttggt 430

<210> 39298
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D9

<400> 39298

ctttggctga tttatgtgct tgaaaaaaaa caaaaaaaaa aacaaaaaaa acccaaccaa 60

aaaaaaaaaa aaaaaaataa aaaagacagg cgcctataag gacatgagta tggttaagta 120

atactactac tctttataca ccttgatgca aatctaacca aattgttgat gattatcaat 180

cctctaatcg acaaaatatt cat 203

<210> 39299
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E1

<400> 39299

cccacgcgtc cgggggcagg gtgacagtcg catgtttgaa gaacttacaa ctcgttgctg 60

ggacgcagcc cgctgctgga gcaccaaccc catcacaggc taccccagtg ccgcccgagc 120

acgagaaggt gatcctgcaa tttgcgaagg tggcttaaga catgttcacc atggactacc 180

ggtacccact gggagacttg catgccttcg cgatctgcct gagcagcttc gacaccaagc 240

tggactgcga gagaaaccac cagacatggc tcaaagtcaa ggactatctg tctgctagac 300

gaacaccgag ggcccaaatt acgctgagcc acca 334

<210> 39300
<211> 498
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E10

<400> 39300

ggttggacct ttgggctgat ttagtgcttg tagagtcgtt gagagcgcgt cgcgtcccgt 60

ctactcattg attgactgac tctggtacgg tggatcgggg gttggcgtcg actgggtcgg 120

cgtctcctac ttcgtctctt ttgggttcgt ctccttagac ttttggtaag ggttggacta 180

ctgagcctgg taatccttag attagtggtt ctcttacttc tacttatgtt gctactcatc 240

ctgtttcttc tgttactcct tcttctgttg ctggtgctta tacccattct ggtcagtctg 300

ctgttggtgg gtcgagtgag gtcagttgtc gtcggtatgt ggtggtttgg tttggttcgg 360

tcgcacccga tactaactcg ggcggtcgga ccaggcatcg tgcggcgtgg aggtacacat 420

catcacacat acccatacgc ctactctgac tcgtccgtca gtcgtacgcc gacccaccca 480

gtcatcatcc cactaatg 498

<210> 39301
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E11

<400> 39301

gctctggacc tttgggctga tttatgtgct tgcggtctcc taaaggagcg acgcccttac 60

agcactgcgg tcacgtcttt aggccgaccc gtgggtacca cgcgtaacgg ctttagcatt 120

ctccaattag ggggcttctt cggttccacc gtagtagtca gtatccgata cctataacga 180

gatactatga aaggcctaac ggacgataga cgccgttacg gtaactaatt tagtagatta 240

gacgactgtg gcctacgcgt ggttcactcc cgagtaagct cataattaat cggtttatta 300

gtggatatct ttcattacga ttgtagtaga cggtattagt acttgcgcga ctacgtacgc 360

aaccaatcta gcctcgtcca gtcataagcg accgcagtca tgtaatcgcg ggaagcacgg 420

ttcacctcac tccgcacaga gaa 443

<210> 39302
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-E12

<400> 39302

tttgggctgg tttatgtgct tgtttatgtg cttgtttatg tgcttgttta tgtgcttgct 60

ctctcacctg ccttttgttc tattgtgagt tagttgctct gtcagggccc tgttgttgtt 120

gttgttgctg ttgttgtcac gttctgttgt agtctaggaa ggctcgtttt atgtttagtc 180

ttttgcgtcg tcttagcgag gaatttgtta tagttagtat gttaggtctt cttcttagtc 240

ttcgcctgag acggcggcgg tcttacgccc ggaggaaccg ggcttattac cggtctaggc 300

acggtgcccg gtatgggcag cgttacggta ttatagggtc gcgacgtcgc accaggcttt 360

tggattacct agtacgagat cgccgttcta gaagtcgtcg tcgtcgtttt cgttttcnta 420

gcgacgaacg tc 432

<210> 39303
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E2

<400> 39303

gtcatgcttt ccaaccacgc ctactgaacg catttcgtga ataggcggcg atgctcagat 60

gggtggatag gccttttaac cgtgagcgac ggtgtccgct gtttatgtga ggtgcttgtt 120

tcgagtttat cgtctgtcaa aacatggact gtatttgact atctgttagc atgtcttttg 180

agatctt 187

<210> 39304
<211> 67
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E3

<400> 39304

aacaagcatt ccaaacatgc atacaaaaac ttttttaaa aataataaag ggctcctcga 60

tatggat 67

<210> 39305
<211> 228
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-E4

<400> 39305

ggatcgtcaa cggcgcccgg ccccagcggt tgtttcgtgc gcggtctgag ggtagctgga 60

ggcagcgacc gctgctccac taangcggtc gcgccgctnt aagagcgctt atgccccaaa 120

gcgaagcgtt acccgtcctc aatcgtgtgc ttagtgccgc tttttggaac cctgtttgat 180

ttttaatgga gatacactta tttgaaatat aattgatccc cagatata 228

<210> 39306
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E6

<400> 39306

ttcgaatgtt ctgtattatt ccatggcaat tgttgaacat atacaacagc agtacagcac 60

agctttggcg ctcaatttac atgtcaagca agcaccaaga ggctagtcat aataagctta 120

caaggcagat acaaagctgc atacacaagt gctaagcagc aatactttat taacattcca 180

gtgaaggtta cattcacaaa tcgagttgca cagaacatgg aactgcattc tgaacgagat 240

acaaccttac ttcagaatgg tcctacttcg cacggcaatg agccaacctt catgcctttc 300

ttctgagcga ttgccttcaa ttcctccgac atagcgctct cctcgatgat cacatgattc 360

aacctagcgg cgcgctgggc aaagagctca acattaccta cagcaatgcc cggacagcgg 420

gagatgt 427

<210> 39307
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E8

<400> 39307

cccacgcgtt cgcgcgtgcg aaccatgctt accccagcag aagaagcgaa gtcgtcgccg 60

gagcacgagg aagagcgagc agcgagatgt cgtggcaggc gtacgtcgat gaccacctgc 120

tgtgcgacat ctaatgccag cacctcatcg ccgccgtcat cgtcagccac gacggcagcg 180

tctgggcaca gatcgagaac gttcgcgagt taaagcctga tgaggttgct gggatgataa 240

aggactttga tgaacctgga ac 262

<210> 39308
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E9

<400> 39308

gacctttggg ctggtttatg tgcttggcat cttctcttct tttctcgtcg tagctcctcg 60

cttgtcgtag actacggagg aggaagggcg gtatgagcgc tcgtacgggc ttcgagagct 120

gtgcgagtag tgaagtagcc tatggacggc cggacggagg gtaacgatta gtcgtcgagt 180

cgtcgtcgtc ttcatcggct gattactagc ccgcacccgc ttacgttctg agcagttggt 240

tgctcctccg tttcggtccg cttagccttg gaaggtggct aagtttggcg aggtgcggat 300

agagattggt aagctagaga ctggtaacag cgagtcttag taggagttca tccgcatctt 360

ccactcattt gccccaaggc ctttcctcct gcgtcgactt ctgctccttc ctgacctact 420

ccgatcgact ttcatcgttt tagaatcgca ttggcgagag tagaagac 468

<210> 39309
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F1

<400> 39309

cccacgcgtc cgccctcttg cttcttcttc ttcttgttca cacaagcgtg ctccttctgc 60

gcgtgtgcta agtagctagc tcacaacaga agaggacgag aggaagcaag gcggcggaag 120

cggctgcagc aacaacatac accgctggcc gtggcgacat gggcatcctg gaccacatgt 180

ctcatgtgtg cagcatcaca gagacgaagg acgcgctcaa gctcaagaag aagcgaccgc 240

tgcaagtcat gcttgactgt aatcattata tatttaattg cctcccatgc atatgcatgc 300

atgcctgatg agtgtagatg catgggcagt ggttgcagac agtgaacat 349

<210> 39310
<211> 482
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-F10

<400> 39310

ggacctttgg gctgatttat gtgcttggta aaactcgtat gagagataga tgatgagcac 60

ggctgagtgg aggatgttgt tgttgtgtgt tgatgggttg ttacaattga tcattgtaag 120

aagtcgtcta atcgtaggga gtctgagctg tgtgctggta ttgcgagaga aagttccaaa 180

aacgtaaaga gggaccccat taagatcgaa gatgatccga aactctcgta gagtgcgggg 240

taaacaaccg gagaggcctc ttgattctcc gacaacgaat gtcccaccgc gaaggttagt 300

agcggctttt gacacgcggc tggccgttga agcaaagcag ataaggagaa gccgatactc 360

ggaatctgcg ccgcatccga tacgatgatt ccgataacaa cgtgtatctc cntatgggag 420

gcggacttag cggcacacaa tacgtactac gaagacttag gaaacgctag ccatctcgtc 480

gc 482

<210> 39311
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F11

<400> 39311

cacggcccgg cacctctggg ctgatttagt gcttggttat gtacttgggg taagaaagaa 60

ggtcccctac acggagtggg aaatggagtg ccaggtggta tgcctcgtcg gcagggacct 120

ccactgcgac ttccacaggg gttaactgcg cggtttactc ctcgaggttc gcctactgag 180

tctgagacta agactgagac tatgactcta cctattacgt tacgtcaggt gcacgacttc 240

gggactaacg tccgaagtaa gtaccggggt atgtagaacg tcctcacggt cgaacacaca 300

atcgaacacg gcgttattga cgtcattagc gaattgactc tcctagggac tctcttgatc 360

ctgatcgtta catt 374

<210> 39312
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D7

<400> 39312

gcaccaagtc ttacacctga acatcaactt ctacggcagc atttgccttg acattcgtag 60

ggaacagtcg cttccttgtt taactatgtc aaaggttctg ctgtcattct ggtgactgtt 120

cacggactca tactctgatg atcctcttgt gcctgagact gctcacatgt acaagaccga 180

caaggccaag tatgagtgca ccgtaagctg ctggacacag aaatatgcca cgggctgcaa 240

gcaaggctaa aagctggcca aactggttaa tgtgacctac cccaaatcga tatcatctaa 300

ataaccagtc aagtctcaag tatgaatgga cttttgagga ccattgtgct ctgtttaact 360

catgtattac cttgcgaagt 380

<210> 39313
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F2

<400> 39313

cggacgcgtg cggggcgagc ccgttcgtgc tccgggcgcg catcgcgctc agcctcaaag 60

gcctgagcta cgcttactcc gaggagaacc tcgacgacaa gagcgagctt gtcctcagct 120

ccaaccccgt gctcaagaag gtgcccgtgc tcatccacca cggcaagccc gtctgcgagt 180

cccagatcat cgtgcagtac gtcgacgagg ctttccccgc cgtcgcacct aatttccttc 240

catccgaccc ctacgaccgc gccattgctc gcttctgggc cttctacgtc gacgacaagt 300

tctacagcgc gtggataccc gtgttcaggg gcagga 336

<210> 39314
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C3

<400> 39314

cggacgcgtg ggctcgatcc agacagcatg cagcttccat gtccaaggtc ttcaccctcg 60

gcgcgggcgc caagcacaac tccaaggagg attgctggct catcatcggc ggcaaggtgt 120

atgatgtgac gaagtttttg gtagaccacc caggaggtga tgatgttctg ttgtcctcaa 180

ctggcaagga tgcgactgat gatttcgagg atgtcggtca cagcaacact gcccgcgcaa 240

tgatggatga gtacttggtg ggtgaaatcg acgcgtcgac gatcccttcc aggacgaagt 300

atgtcccccc gaaacaacct cactacaacc aggacaagac tcccgagttt gtcatcaaga 360

tcctccagtt tttggttccc ctggcaatcc tgggcttggc tgtagccgtt aggatgta 418

<210> 39315
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C4

<400> 39315

cccacgcgtg cgctaaatac aaacagcatt taaatataca tgtccaaagt attaacacta 60

ggggcgggct ttaagcacaa ctgcaactag gattgatcac tcatcatcat aagtaaggtg 120

taatgaatga gacgaagtta ttggtttacc aaccaagatg taatgatgtt gctgtgaaat 180

caattggctt agattcgact gatgatttcg aagata 216

<210> 39316
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-C5

<400> 39316

tgcagattag aggcagagtg gtgactgcta tcgcttctgg tggacgttcg aaatgtcctt 60

ggtgacctat ctttgaattg gcattgccag aaatagctca aaagattaca cggttggaga 120

atgaagatac cttgcttgat tcttctggtg agactagatc tcgtcacatc caaccacgat 180

ggaaacaagt cctactagcc gtaatggggc ccgaacaaca ccagcggccg gtggatggga 240

tcgctgcccg ctcctgtcgt cgttgcccca ttggtggagg cccgaacagc acctgcaacc 300

ggtggatggg atcaccgcac cgtccctcgc cgttgttgcc ccatctgtgg agcacctcgt 360

ggccggngat gcctgccatg gcgaccaacc agctcaccct ctctttccat ggcgagttt 419

<210> 39317
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C6

<400> 39317

cccacgcgtc cggccacgcg tccagtagga cgtccttctc gtgggcgacg acccttggca 60

ggaattcgtg agcacggtgt cctgcataaa gatcctctcc ccgcatgacg tgcagcagat 120

ggggaagcac ggcctggagc tcctgagctc ggactccgag cggaggctcg gtagcagctg 180

tgacgactac gtcagcaggc aggagtcgag aagcctgagc accgggatcg cgtccgtcgg 240

ttcggtcgag ttgggatgag cagcaagata gcgcgcacgc agcagcagca gcagcaggtt 300

acgcattctc agcctcaagg taggtagggg actgaagggt tggtctgcga cttgatgacc 360

cacgagctcc tcgttgcgcg ctttattcgc ctgcatgcga tggatagaag ttcagcgcag 420

accaagcctt actctgctag ctatgtacca tctaataatt ctg 463

<210> 39318
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C7

<400> 39318

cccacgcgtc cgtatttttc tagattagta ctaagatgat ccttgcacat attttcctcc 60

gggtgtgaat attctcggat ggctgatgga gggaggggag gcagggaaag gctgattagt 120

tgtgaggttt cagatgatgg catgccactg gggaggtaga agggatggcc agtcaaacac 180

agacggatca aaggagacat ggtatgcgac cagaccatgc atgaggtgtc tagacgtaca 240

tagcgtctgt gtagtgtacc tgtgtgtaga gtgcgcgcgc aggtagagcg tgaacaggct 300

accatgtctg agatccaaga ctggaagtaa catgactgga t 341

<210> 39319
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C8

<400> 39319

cccacgcgtt cgcccacgcg tacgatcacg cgttcaccga ctcgtatgac attattgatg 60

aggagcttag cgttcgcggt cagagggctt acttcttgca ggagttagca caccggtcct 120

agaactgcga acgcatggat gccaatgtct aagctcacag acttcgtctc atgcgctaac 180

taccattcac ttgagctgca tgatactcag gagaacctta cgcaatgtgc tgacgacctt 240

ggcattccat ttg 253

<210> 39320
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C9

<400> 39320

tttggctgat ttagtgctcg tttatgtgcc tgtttatgtg cttgtttatc tgcttgtgga 60

tgtgcgggct gacttttata gagttagggt gcgtaggtgg gtgggtgggt gagtgagtga 120

gaggaaaagt taaggtggta gtagcaggta gttattacta acaaagaagg cttaagtacg 180

ctgggggcgc gggcgccttg gaatggtgcg gcgaggtcgg cggagaattt gatgctgggg 240

aatgtggtgg tggtgttggg taagtgtaag gtgtcgtcgt atatgttgct tggggaggcg 300

gctatgcttc atgttcagtc ggagtgtaag tcggtggtgt ctggtcggga gtgtcatcat 360

gttggtggtc gagatggtcg tagtcttggt tcgtcgtagc attataagtg t 411

<210> 39321
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-D1

<400> 39321

cttgctgcca aagcgaaggc tggaaaggag gacggcagca gccgtgctga agctcctccg 60

ggtctgggaa gcaacgccta ctgcttcggc gcgctcatga tcgagaccat atccgggagg 120

gttcctgacc cgtatgatca caaacccata tgcagctggg cttctgagca tctgaaagac 180

aagaactacg gcaagctcgt ggacgcgtcg ctgaaggagc acaaggaaag cgagctggag 240

gccgtctgcg aggtgatcca agagtgcatc gaccctgacc cgacgcggcg gccgtcgatg 300

agagacgtcg tgggcaagct gcgagacgct ctncgcatct cgcccgaggc ggcngcgccg 360

cggctgtcgc cgctctggtg ggcgga 386

<210> 39322
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D10

<400> 39322

gacctttggg ctggtttatg tgcttggggc cggtcctctt ctttttcttg gcctggccct 60

gggcctgcga ggcctcttgg ggcctgggcc tgcgggcgag tggactgaga cggtggtgct 120

ggacgccgag cattgtcgtc ctgctggtgg ttctgttcgg gttatggatg attatctttc 180

ttataatgtt cctagtattc atggtgaggc ttctgagctt aagactactt ctgactggga 240

gatgtagagg ctttgtggtc ctggccctgc tattcctctt atggaggagg tgacgtggaa 300

tgttactgag ggtacgaatg gtaaggagtc ggatggttgt aatactattg ctaatgaggt 360

ttagctttgt ggtggttgc 379

<210> 39323
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D11

<400> 39323

cggctctgga cctttgggct ggtttatgtg cttggttgga tgttgagttt tagatggttc 60

ctcctacgag tttaattctt gcgtctgacg tggtggtggt tcctgcgttg ggtatggatg 120

gtgttggtaa gtgttgtttg ttgcggtggg tgtgggataa taatggctct gtggatgtgt 180

cggatcgtag tgattattat tagtagtagt agtagtagga gtggactgct tctgtggtga 240

tgttgctgct gcgtctgtcg gttagactgc gtctttcgga ttgctgtgct gagcctggtg 300

ctaagaatag gagtctgcgg tcgttttctt gtggtcgtga ggttatggtg ttggtgttgg 360

ttgatttgcg ggagacagag ttgctgctgg aggatcatat gcgtgctact ctttgtgggt 420

tcaatttgag gatggcgtat actcctggtg attgtgctgc ggaaggt 467

<210> 39324
<211> 223
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-D12

<400> 39324

tcgcgttatg gatgattata cctcatataa tgttcctagt attcatggtg aggcttctga 60

gcttaagact acttctgact gggagatgta gaggccttgt agtcctggcc ctggtattcc 120

tcgtatggac gaggtgacgt ggaatgttac tgagggtacg aatggtaagg agtcggatng 180

ttgtaatact attgctaatg aggtttacct ttgtggtcgt tgc 223

<210> 39325
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D2

<400> 39325

cccacgcgtc cggattgtca cttaagttaa catgtatttt aaaacttata aatattttat 60

acattgtaaa ttgtaattct atgtaatcat tttcttttgt aatcactccg ataattgtat 120

aatgtaaact tattgtaaca caaaaaaata tacaaataga cttataaaca tatgaaagac 180

aagaactacg 190

<210> 39326
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D3

<400> 39326

gtggaagaga tgaagacaac atcctggagg cgtctgctgg acaagggaag gcagaagaga 60

agctcggtga tgatatctac aaatctgaga tatctgatca agaaataaca gcaaggacag 120

gtgctactct ggaaggtagc ttcgaagagg atatttcatc ggaccaagag gcaaatgatg 180

atgatgaaga tgagtgccat gtgaaatctg atggcgaatc agaggacact gaggagcaag 240

atctggagga tcaacagagc atgccagatg atgtctctaa aatagagatt tctgaggaca 300

ccgtctctgg tgacggatgc aaagaggatt tttctgaaga agtaacctcg gcagctgtgt 360

tagcagatga tgtgtttgaa caatatgaca acactgtgga tgatgtg 407

<210> 39327
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D4

<400> 39327

atgataagca acatgctgga cttgatgtga ctgctaaact tgacacttca actgaaccac 60

aggatggtat tgcgcctgat aggcttactg atcttctgcc tgctaatgat cccaatcata 120

ctatggttca tatacaggcc cagtctacag cacaatcaca tgcatcagat ggtggcaaag 180

accctgatgc tcatgcaacc tcatatttgg tcaagaacac tcacagcaac atggagcctg 240

atgtgcagaa cagtatctcg cagctgcatg acatcactgt ggtaaaggcc aagcaagggt 300

acaggaaaag acatgtgtca gaagagataa tttctgatga gaaagcaagt gcttcaataa 360

cca 363

<210> 39328
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-D5

<400> 39328

cttagccaca cacacacacg gctgctagtg tacacagagg cacagcagca ggaggatggc 60

cgtagtgccg gctgcgccgg tggttcttgg agtggccatg gtgctcgtcg tcctggtcgt 120

cagcgccggc gcggtcgggc agctcaggat ggggttctac tccgagagct gcccggtcgt 180

ggagcgcgtg gtgggcgact tcgtccggca gcacgtccgc cgggtgccca ccggcgcgct 240

cgcgttgctc cggctgcact tccacgactg cttcgtcagg ggctgcgacg actgcgtcct 300

gctcaactcc accgcctgca gcgtggtcga gaaggacgcg ccgncgaacc tgacgctgcg 360

cggcttcgac ctcagcgacc gcgtcaaggc gctcgtcg 398

<210> 39329
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-D6

<400> 39329

cccacgcgta cgcaaacctc cctgccaagc cctcttttt ccctcgccgc ggcgcaggca 60

gagcataggc actagcatgt cggcgttcgc cgtccgcgtg gccttcttgg ccgcgctgct 120

gctcgccctc ctgctcgcgg cgccggccta ggccgtcaac ttcacctgcg ccacggtggg 180

caaaacgtgc cagtcggcga tcgggtacgc ggtgcccaac gcgaccacgt acggngagct 240

ggtggcgcgg ttcaacgcca ccacgacgct ggcggagctg ctgtgcgcca acggcctccc 300

cgtcacgacg ccggcctcga cgccgctggc ggacaaggcc acggtgcgcg tgccgttccg 360

gtgccggtgc gggagcaacg gcg 383

<210> 39330
<211> 469
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-C12

<400> 39330

gacctttggg ctggtctatg tgcttgttta tgtgcttgtt tatgtgcttg gtttgaacaa 60

gggttattgg aaggtgcgtt tgttgttcgt gctcttttg atgtttatgt tgatgtttat 120

gttgcttctg gataagcgtt ttactgatgt gtcgaagtct ggtgtgcgtg cggatacctc 180

tgggaatgag gcgtatactg gtgatgttaa tgctaagcgt cgtttgtctg cgaagggtac 240

tgttgggtct cttgtggtgg tgcgttcgcg tattgttact aaggttaagg cgtcggatac 300

tcttgctcat gcgtttactg tgtcggaggc gtctgctaat cgtggtcgtg aggctttgtt 360

aggtcataaa cgtatccaaa tgatcttacc ttaccctact ttactctatt acgtgcgtat 420

agtgaggctc ntccccgttt ctttgaacgt anagcccgaa aggtctgct 469

<210> 39331
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A8

<400> 39331

tggaagcagc aggggaagaa gcattagatt ttagaagagt agtccactca cttaaggttg 60

gtcttgaaaa tctttacaat ggaatctcaa agaagctctc tctttcgcgc aatgtcatct 120

gctccaagtg caaaggcaag ggctcgaagt ctggtgcttc aatgaagtgc cctgggtgcc 180

aaggctcaag tatgaaagtc accattcgtc aactggggcc ctccatgata cagcagatgc 240

agcagccttg caacgagtgc aaagagactg gggagagcat caacgagaag gaccgctgcc 300

caaggtgtaa gggtgagaat gtcgttcacg agaagaaggt tcttgaggtt catgttgaga 360

aaggaatgca acaca 375

<210> 39332
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A9

<400> 39332

tggctctgga cctttgggct ggtttatctg cttggattct tagagatata aaaggtacca 60

ggagtcatac cagtagtcgg ctcactcgat atttgctagg acgcctacga tagagtatcc 120

cctcatcata ggtccccgta acataacttc aacgcagtag aatgcgcagc aaatttcttt 180

aaataagtcg ctctcgcacc cgtagacata tagagtagcg aaattaaaga ctggacaccc 240

gacgagccta atagctcact agccgcacac tagaagttac tccatacgcc catagacagg 300

gagtactgcg ggttacccga acatctagag gactccataa gtccgatcgc cggggtagag 360

gacttagaaa acgcaaccct cgtttaaaga cactaagaaa atgacaacga ctcccc 416

<210> 39333
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B1

<400> 39333

aaaaaacaaa gcggccccac tctatcatga tcccaactta cctaccccat cattccacct 60

aaaaactatt ctatagcttc acctaaactc cattcaatct ccgtcatctt acaacactcc 120

ttactcggaa aacccttgcc ttacccaacc taatcaccat tcaacataat ccccttttctt 180

ccacctgcct tataaccaaa aaaccctcac ccaacctcct ttcc 224

<210> 39334
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B10

<400> 39334

gacctttggg ctgatttagt gcttgaatgt tcttgtcgta actagttttt gtggccagtc 60

cgtttcgttt tcgatttcga gcgtcagcct ctgttgccat gcaaggtcct ccggttccgt 120

gcttcttgct ccctgccgtc gacatactga ggcaccaaag aagtcgttcg accttgggca 180

gtagaggctg ttgttgttcg tagtaacggt tgatcctctt cggtctatgg cgtccggccc 240

ttcaccttct atacctaatc taggtacggt gacccactgg cttaatggcg atgttggtct 300

tgctgtccct gctgcggcac tccactctga ttcggcggtt tcgcctgttc gtccgtgtca 360

tcatgagtag ccggactagt agtatcttta aaagtgtgtg agggctaagg tcggggcccg 420

gagttctatg atttcctcca tcactacgcc ta 452

<210> 39335
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B11

<400> 39335

gacctttggg ctgatttagt gcttgtttat gtgcttggga atcctttcag gcgtcaaaag 60

agggccatcg gccagaggag gcgacgcccc agagtgcccg gtcggaacag acatctccgc 120

gtccgacaaa atagggatgt ccatagaagg aaaattagca gcgatcctca ccgtcctctc 180

ggtacacgag gagatagagg cttcctgctc cgtcgtcgta gcggagaaaa tagtaccgta 240

tttaaccgta aacgtcacaa cgaataaggt cgaatcatct aagccggaca ccttgactat 300

aagcggctag tccatactgt tcggacccgg ccgcccggtc gaagcagacg ggagcccagc 360

cgtagcgggt atcccggacc gggcgtacga ctgccccgaa atcaaagtac tgttaatcga 420

atcgagagat tccagaaatt ggtcggagcc cacgccgcta agcgaag 467

<210> 39336
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B12

<400> 39336

gacctttggg ctggtttatg tgcttgttta tgtgcttgtt tatgtgcttg attatctcct 60

tctttatgtg cttgattatg tgcgtggtga tgtgcttggc tagtcacgag gaaggtgaat 120

agcccgttaa ggagtacggc tcggccccca cggaggtact cgtcaaaatc gtataaaatg 180

ctgaggaggt acctaccaag attgtcggca taacacataa gaaaacttaa gacggtacac 240

ccgacgcact aaacgagctt aatgggacta aagccggtca cgtcgccttt aatctactcg 300

gaggcggcgt cggtctgctt ctataggtcg gcggtcgtcg tagccgagtg gcggtagtaa 360

gctacataac cgtaagggcc tcttttgtag cactccgacg cccgttcaca gtcggttttg 420

gacgacccga ctccctagtt actatgccct aacttacgaa taaatt 466

<210> 39337
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-B2

<400> 39337

gccgtgcgtg aagaagggcg gcatccggtt caccatcaac gggcactcct acttcaacct 60

ggtgctggtg accaacgtgg cgggcgccgg cgacgtgcgc tccgtctcca tccggggctc 120

ccgcacgggg tggcagccca tgtcccggaa ctggggccag aactggcaga gcaactcgta 180

cctggacagg caggcgctct cgttccaggt caccgtcagc gacggccgca ccgtcaccag 240

caacggcgcc gtccccgctg gctggcagtt cagccagacc ttcgagggcg gccagttctg 300

aggatgaaca gctagcgcgc gcgcggctag ctattggata attaattacg gtactgtcga 360

tttggttttt ttgccttggt tnttttttgc gcgacga 397

<210> 39338
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B3

<400> 39338

gcgtgcgtga agatatgcac cttgcaggtc accgtgtact gtctctaata catcaacatg 60

gaccggcact caaagtgtca tggcgccact ctctcacgct gctcgttgat gcttgcttcc 120

gctgcaatcc ggctgccgat gccgcttata cagtgctcag tctctctata gatcgcagct 180

cgctgcactg caaacagctg taacagcagc cgcttgcagc caaccgaaca cgccctttca 240

tacttattca atatcacaag tctgtcctga gatct 275

<210> 39339
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B4

<400> 39339

ctttagtagt gttaccaatg ctgtgaatac cggatagtgt gtgttcggtt taggatcacc 60

tgtgtgtaga tagaagttgt ttgacgtttt gggctacaat ttctaaattg ttgctttgga 120

tttttcccca tattatctta catctgttat taatttgatt ccttagtatt ttgtctcact 180

tatgaagatt ttaaaacaat aatataagtc cttttacctc ttgtagtctc actatttcaa 240

gtttctgctt taaaatacct gataggtacc cctttgcgaa gacaatgcct ctgatgtgtg 300

ctggattc 308

<210> 39340
<211> 63
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B5

<400> 39340

gttttgtgtt tctatgtggt taattggtta ccctttggaa tgaaaatcca ctgaatttgg 60

gtt 63

<210> 39341
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B6

<400> 39341

gcgaggtctg tgcctgtgcc tatgctccat ctcccctgcc cctgcgcccc aagtccaggt 60

cggccactca gcactcacgc tgctcgctcg ctcgctcgta cacgcgcacg cttcgcgcac 120

ggaaggaacc gtggtggagg gagcggacag acatgatgca cgcccagccg aatctgacgt 180

gacaggcttg gcggcaacat cgccgccacg gcagctaaac cgggccggag atccggccac 240

cgccgctact aacttgcaga gcccgtcgcg ggagtcgcac gacggcggct acaagtcctc 300

gtcaatgcag ccaacgccgg tctacaacag ccccaacgag tcgccgtcgc acccccttata 360

cggcc 365

<210> 39342
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B7

<400> 39342

gtcaggtgta cgtcagtaac accagttatt atctcttgct cttgtgcaat aatggcgggt 60

ggatcattct gctctcaggc ggagctcttg gtcgctggta cacgcgtgcg atcggcgcat 120

gtaatgatcc cagctggggc cagcacacgc gacatgatgc agcgagatgc tgagaggtga 180

cgtgactagc tgtggcgcgc gcctcgggta ccgcgatggg cagaagcgga gtcggcgtca 240

ccggcaatgc tcggatacta gtgcgcatag ctcaacagc 279

<210> 39343
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B8

<400> 39343

gccacgcgtt cgaccacgct tccgataatt atattcactg gctaaccata cacaataaag 60

ggagaagttt aacattcgac ataatgttgc tgaacttaat ggagtatata tggaatgttc 120

ctaagtcacc gaaacgcatg gagacaaata gctaaagagg aggagaaggg tgtatactta 180

aattttctta actttctcat aaatgatagc atctatcttc ttgacgagag tttgaacaaa 240

attcttgaac tgaaagaaat agaggctgaa atggctaaca tagttgagtg ggagcgcaga 300

cctgctcaag aaagagagga gcggctgcgt gtatttcatc agtgggaaaa tattgttcgt 360

tttgacatga ggctagccaa tgaggatgtt gggatgcttg cattcacctc tgaacaaaat 420

ccagcacctt t 431

<210> 39344
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B9

<400> 39344

ggacctttgg gctgctttat gtgcttggaa actcctcaaa gtcccacgcg gacaccgaac 60

ctatcggtct ttacatataa ccccccgaga agcccaatac ctgatacaac accgtcgagt 120

cctcggagca cccacgggac gccttcagct attgaaatgt acggagataa acagtcaaag 180

aggaggagaa gggcgcacat ccaaacccct ccaatccctc tacaaacgac agtactcact 240

cctccgatga gagcccgaat aaaacctccg aatcgaaaga aacagaggtc gaaacggtca 300

atacagccga gcgggagtgt agattcgtct aagaaagaga ggagtggtcg tgcgcaccct 360

actagcggga aaacaccgcc tgccccgata cgaggtcagt taacgaggac gccgggacgt 420

ccgtacctat tctcgaataa ac 442

<210> 39345
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C1

<400> 39345

cgattgccga tgcctgtgaa aacgttgcgc tttgtttgtc acggtgaatg cttgtgttcc 60

tgtatgagct ggatttggga actgctcgta gaaaacaagt caacaacaac aaaacttgta 120

gggtccagtg ggcctgacga gtccttaaaa aaatttgttc acttgc 166

<210> 39346
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C10

<400> 39346

ggctctggac ctttgggctg ctttatgtgc ttggccgagg tctttaagat tgattcagat 60

ccccggaaag cttccgcatt ggccgtcgcg gtatagataa ccggttacgc cgtcgtgata 120

gcgagtacgc tcaacgcggt agcgctacct atatatacat ccaacagcgt agaattcgta 180

cctatcgccc cggtgctaaa gccttcttcc ggggagatgc ccttagcctt agctcactca 240

cctctcctcc ataactaccg gcggtcgcgt ctcagtcgtc gctatagagt cgaatcccta 300

cacggccgga cccacgggcg tcacgatgct taattccgta cctgcccctt gtaatactcc 360

tctgaagagg ggtacgaacg ggaagcttgc tagcggtacg aaccatcacg tccgttcgct 420

aacaacgctg acggctacat cg 442

<210> 39347
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A7

<400> 39347

cttttggagg aggtggtgga agcagcaggg gaagaaggca aaggatggga gaagatgtag 60

tccactcact taaagtgtct ctggaagatc tttacaatgg aatctcaaag aagctctctc 120

tttcgcgcaa tgtcatctgc tccaagtgca agggcaaggg ctcgaagtct ggtgcttcaa 180

tgaggtgccc tgggtgccag ggctcaggta tgaaagtcac cattcgtcag ctggggcctt 240

ccatgataca gcagatgcag cagccttgca acgagtgcaa ggggactggg gagagcatca 300

acgagaagga ccgctgccca gggtgtaagg gtgagaaggt cgttcaggag aagaaggttc 360

ttgaggttca tgttgagaag ggaatgcaac acagccagaa gatcaccttc cctggtgaag 420

ctgatgaaac gcctgatacc gttactggag aca 453

<210> 39348
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C11

<400> 39348

ggacctttgg gctgatttat gtgcttgact cccgcccagc cgctcccgcc atcgagacga 60

atctgaagta agagactaac ttaaaatgct aagcacccgt ccatacttag atagaataag 120

cccgacacag cactgaagga tataaataga taaagaaatt atatagaata aaatcgttaa 180

gacaacgaca ttatataaga gaaaaaatag tgaggctggg ctcgaaattg tacgtactta 240

cacatacatt aggatttacg ccggtctcca caccccagaa ccaaataaat cca 293

<210> 39349
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H10

<400> 39349

gcgttcggac gggacgcgct tgtaacacta acgcgctttg tttacctaca tcagatattc 60

gactaccagt gagtctttaa cataccggga ctactagcat accttgcctc actttccatc 120

tattctatga aaacctgcgt actgaactag gactctagat actagctctc attactacat 180

tataccgctc aatatgcatg gcctaatgac agttaaacaa tcatgcaaac atcatactaa 240

ctcacattct acatgatcca aacttacgaa ctcattcatt ctaaaacata attttaatat 300

actgccactt tagatgaacc cactttacgt actcatacat cctacttact agcaaatccc 360

tggcgtcacc caacttaaat gcactgcacg acatactact atctccagac tgcgaaatat 420

ctaacattac ccaacttatt gcccttgc 448

<210> 39350
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H11

<400> 39350

gtgagcccag taccgactcc aacaagaatt tcgttttaga agacaagagg aagccaaaag 60

gagaacgagt tcttaaggaa gcggatggca acggctctgc tccagctatt gctgtcactc 120

cttatcgtct cctgcgcctc acagtcgccg tacgcgtcga atgctcctcc gctcagcgcc 180

tcagcgccaa gggttctctg tcgcgccacc gacatcagcc gtctcagcgc cgcaagcgtc 240

tgcacagccg ccgacaacag tcgccgcgtc tgggcctcat gcctctgccg tagcaccaac 300

aaaagcatct tttactcctt aagcctctgc tgctccgtca actacagctg cctctccgca 360

tctggctacc acttttgccc cagctttctt accgtcacta gctgctgctg cgccacctgc 420

cttcgctacc ccttcaacca 440

<210> 39351
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-010-Q1-K1-H12

<400> 39351

gtccgcccac tcgtccgtga tctcagccgc cgccgctgct catctcacag cccggtataa 60

tactcctgct cctcgccgat cgatacgatg gccgtcttct ccgacctcca caccgtcgac 120

tgcctcaagt ccctcgaggc tcacctcgcc ggcaaaacct atgtgtctgg tgactgcatt 180

actaangatg acattaacgt cttcgacccg gtgccgtcga agcctggcgc tgagtttgct 240

aatgccgtcc gctgttacga gaccgtctct gcggctgtag cctcaagatt ccctgctaag 300

gctgttggtg taaatctgcc tgctggatca gctcctgctg cagctgctcc tgcggatgat 360

gctgacgatg atgatgacct tgatc 385

<210> 39352
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H2

<400> 39352

ttctgagggt gcatctagga gcatagggat aggtggacca actcaaaaga catgtgcatt 60

ggcagctcta tcatctgcat tcaatccatc gatacaacaa aagctctcta atgagaggct 120

taaaagcaca tgcgatggac ccactcaacg cgcctcatca ctggctgccc tatctaatgc 180

attcaatcca tccttaaaac ccaaaacacc acttccatct cgctcaggtc aaggttccca 240

aagagcagct gccgtagctg cactatcctc tgtgctgact gctgagcatt ctggatcttc 300

agaaaatcta cgagccaaag ctagcagcac aggatataag actgatgtcg aatggcctgt 360

cataact 367

<210> 39353
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H3

<400> 39353

ccgacgcgtc cgcggcgcgt gggtgcattg tggtttctgt gtacatcaaa tcgaaagagg 60

ctccggctaa agatgttctt acagatctcg ttgaaatgtg ccgtgggatt caacatcctg 120

tgcgtggcct ttttttgata agtcaccttt ctcaaataag cagagacaaa ttgtctgata 180

ttgggtctga gtacgaaggc gatgtggaaa atattaacga tgcggctgaa tttgttcttc 240

agaatttcat agaaatgaac aaactctggg tccggatgca gcatcagggg cctgcccgag 300

aaaaggaaaa gcgtgtgaag gaaagaaatg aactgcgtga tct 343

<210> 39354
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H4

<400> 39354

acgcgtgcgc tgggagggct aaagcgtggc gatgtttagc gttgccaggt ggtgtgcaaa 60

cctggtggtc tgggtacata caaaaagttt gaggcagaaa tatacgtcct gacaaatgat 120

gaaggtggcc gtcacactgc ctttgtcaca aattacacac cccaattcta cttcaggact 180

gctgatgtca ctggaaaggt tgagttgctt ggtgagacga agatggtttt gcccggtaac 240

aatgtaaccg cgaatttcga gttgatatcg cctgttcctc ttgaaactgg gcaaagattt 300

tgctatgagt gaaggatgga agacagttgg tgccggggtt gtctccaaag ttattagctg 360

atgaatttcc actttcttgc ccgtaacaat tt 392

<210> 39355
<211> 320
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H5

<400> 39355

gtgccatccc tcgcctgcct tttcacgttt gcgccgcccg ctcgacagcc acggggcagc 60

gcgcctcgcc gctcagctgc ccggcacccg cccttcctcg ccgagctcag gatcgacgtc 120

tcccgcacct tcttcgcgcc cgttccgggc tccgcatccg gcctctcccc cgtccccaac 180

cccattccgc agcaggcgac cagcacaact tctctaatcc tccgtctcgc attctgctct 240

cctgcgctcc tactccgcgt cccgccaccc ttcgtacgca caagtttact atgtctggga 300

tggcatctga tgattcacct 320

<210> 39356
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H6

<400> 39356

ggagaaagaa cagaatgctg ttatgtttgc actgaagaag caggagaagc gcgccaaggg 60

gactgtcatc atgatgatga agtgtgaaga agatgagtca tctgagtcaa gcgagagcga 120

ttgtgaggac gaggcaacca tgaatgccga gcagggcttg gtgatctcaa cagcgtttcc 180

cgaggttgtt gcatcaagca tctcagctgt ccccgcgatg gagtgtgata aggctgcagt 240

gaaggccatg aagaaaatgg agaaggaaca aatgaaggcc atgaagaagt atggagaagg 300

aacagaagaa ggctgctaat aaggccatga agatggagaa ggaagcaaag aagatggcaa 360

tggctacact gaatggc 377

<210> 39357
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H7

<400> 39357

acgttacgca agagcccatc attgagtttg tccagagttg cgacattgtg gctggcaaga 60

ggatctagag ttcagtttct gagattgggc aacggcagcg gctcagctcg tcaagtttgt 120

gctgggatgc cagtttatcc cttctagtct attacagaaa tgttgttcgg atctgagtct 180

attataaaca tcttggtctg agtttattgt tgagtggtgc cagtttttt caatatacat 240

ttatcttaaa aacagcggta ctgatgtttt tttgtctaaa gttaatgagt ttgcaatggt 300

tctgagtcta aaaaaaaaaa ttaaataa 328

<210> 39358
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H8

<400> 39358

ggaggacgag ccgtgaccat tcagccttca cctcaccccc ccatcgcccg ggttcgtgcc 60

accatccact cctgcttccc ggccttccta cttcatccca acaaccgcta cttcttacag 120

gcctgccgac cgttgctctt cgcaactaaa cccttggcag cttccgcccg ttaccttgcc 180

ttcctaccgc ttgctttccg aataaaaacc gcccaaccct ggccaccgaa accttgtccg 240

gcctaacctc ttcccgggtt t 261

<210> 39359
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A1

<400> 39359

cccacgcgtc cggaaagaac agcttgcaaa agatgtcgca aaagattgga atgctgtgtt 60

tgaaaggagc atcaatacat tgtttttgac tgaaatggtc cgtggcttga tgctaactct 120

caagtacttc tttgatagaa atgtcacaat taactatccg tttgagaagg gtcctctgag 180

cccccgcttc cgtggtgagc atgctctcag acgttatgaa tctggggaag agcgctgcat 240

tgcttgtaaa ctatgcgaag ctatatgccc agcgcaggca attacaattg aggctgaaga 300

acgtgaagat ggcagtcgcc gaaccacaag atatgatatt gacatgacca aatgcattta 360

ctgtgggttc tgtcaagagg cttgcccagt cgatgctatt tgtgaggggc ctaactttg 419

<210> 39360
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A11

<400> 39360

ctttgggctg atttatgtgc ttgtttatgt gcttgtggat gtgcgggaaa ccacaacaaa 60

aaataaaaaa aaataataca acagggaagg ccccaaatca aaataatgaa actcataata 120

tatcaaaatc aacaacatac gccaatattt aataagaata agtacaaatc agacattaac 180

gacggtatcc tacgtaaata ttgaaactct caagaagctt taaacttcaa actcccatcg 240

ctagctcgat gtcgtcacag atcacagttt cgagttcata ctgccatcta ttcgcactaa 300

taattctagc tacatggact ttgcctcact catataccga tagaccgaac cctgtacctt 360

accactaccc gtcttcaaag caa 383

<210> 39361
<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A12

<400> 39361

tttgggctgc tttatgtgct tgtttatgtg cttgtttatg tgcttgggac tcctcttggt 60

attcctcgag taaaatacca caaaggacga ccctatctaa ataatcgacg ccgtaattgt 120

cgaagtcctc agctagggca gctttaagaa gaaaaggtac aagcccgaca gcggcgacgg 180

tatcctacgt aagtgccgca gccgcaagaa gcttaaacgt tcgaaatccc atcgcgagcg 240

ccccgtcgtc ggagctcacc gcctcgagtt ccgcctgcgc actggtcgca cgaataatta 300

gagctacatg gaaatcgcct cactcatgtg gtaatagacc gaactctgta acttaccagt 360

acccgtcttc aaagcaacct acatactcga gttcggctcg gaatcaaggg atcctcttaa 420

caaaatcttc gtcctagtct gctataaaag gggacgtaac cgtaagaagc tgctacgctc 480

<210> 39362
<211> 274
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A2

<400> 39362

gctagcaaga actgcaggac gataagcaag atctggtgtg cttgggtagg acaaggctcc 60

cgatgggttt gagagttgta acacttatga gcaatctgga tttgccatag tcaacttctc 120

ttatacctat gattgatgca ggaagtggtc ttatgaggaa caagacctgg ctgtctctgc 180

tggatctttc tctgtaattg atgatgctgg acaccgtgga aagcgaatga gaaaatcatt 240

ctctgatcaa gaagcatatt cagaagagtc aaac 274

<210> 39363
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A3

<400> 39363

tgcatgacga taagcattat ctttcgtgct tgagtaggac aaggctccgg agaggttcat 60

agtacaacac ttatgagcaa tctggatttg ccatagtcaa cttctcttat acctatgatt 120

gatgcaggaa gtggtcttat gatgaacaag acctgtctgt ctctgctgga tctttctttg 180

taattgatga tgctggacac cgtggaaagc gaatgagaaa atcattctct gatcaacaag 240

catattcata agagtcaaac ggtcagaaca actctttaca gggcagtacg caagctattg 300

tgacttgttc accggtaagt acctcaaatg atcttcaagt tcatctctta tcaagcatgg 360

c 361

<210> 39364
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-A4

<400> 39364

ggaaccacgg gttaagaaaa ttcttgtcca tcacatcgag acagtccacc actctgaagc 60

tgtcgaagat gttttacaat ctcttttgct tgttgactca aattccaagg agacaaagag 120

caagacaaag gagtggaatg acagaatcaa gcaagacaaa aaaccagagc aactacgatc 180

agctgccaga cagaggcatg aggatatggg aagaaatgct cggtttgcac aaatatggaa 240

gagtcgaaaa ggagaaaagg ctgnatgctg tgactcattg agagaaatat gccatctnta 300

tgatgctgtc caagtagatc ccgatgatga gaagcatcca gcagaaccac ggattacatc 360

gtttgaagag ggtgctgtct atgcaacttt cttccactta taagggaat 409

<210> 39365
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H1

<400> 39365

gtggcacgga ctgaaccaaa ggtaacgtag gaatctatta taatgactag tcatccaggg 60

atgagtcccc tttgtctcat tgcgcggagc tctcaattga tcgaaagttt tgtagagagc 120

agagagcatt cacttcagat tacctggaac tactgccatg tattctgctg gtaaactcga 180

taagaattct ttgatcctgt ccagcacgaa ttttatgca 219

<210> 39366
<211> 167
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-A6

<400> 39366

ctgtgcagaa atgtttggtg cctgttttat ttttcttgca taaaagtcac aagcactgan 60

aggtggctcc cctatttaaa gcttcggaaa agggtttaac ccaaccggtt ttccccatct 120

ggtggggaac ttccgtgctt attgcgcgtt ccttacaatt ttccacc 167

<210> 39367
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-H6

<400> 39367

cggactcttt cgcccacgcg ttcgcccact cgtncgcacg gaccgcgccc ggatcaacgt 60

catcaatgac gagctgttcc ggcttcttca acacgcggac ctggatggcg cggtggtcct 120

ggtgttcgcg aataagcatg acctgaagga cgccatggca cccgcggaga tcaccgatgc 180

cctctcgctc cacagcataa aggaccacga ctggcacatc caggcctcgt gtgccatcac 240

cggcgatggc ctctacgacg gcctgggctg gatcgcgcag aaagtcgccg gcaaggcgac 300

cgcgagctga cgtgcangag agcagtggtt gtgtgttcat gaacggattg gatttgttga 360

aaggtatggg tggtggcagg gcgggtttgt ttcttcctcg gcgtcacgcc caatgcttat 420

ttatggtttt ttaa 434

<210> 39368
<211> 186
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-H7

<400> 39368

accaaatctt taaaggtaaa ccgataattc tttctttgaa gaagaagggg gggacaacaa 60

gaagaaggta gaggtaactc aataaatcta ctgctgtccg gggaattaat tcaaagctta 120

tttgctgcac cttggctttc tttaaaaata gcttcatctt gtgtatcccc atctgggtac 180

aaaaac 186

<210> 39369
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-H9

<400> 39369

ttccaaatca ccgccggctc ggctcttcat cttcgcgcca acaccgggtc ttcgaggccc 60

gcacgaagca aacggctcnc aaatcgactg gcggcaaggc gccccgcaag cagctggcca 120

ccaatgcggc gcgcaagtcg gcgccggcaa ccggtggcgt gaagaagcct caccgctttc 180

gccccggcac cgtcgcgctc cgggagattc gcaagtacca gaagagcacg gagctgctca 240

tccgcaagct gcccttccag cgcctcgtcc gtgagatcgc gcaagatttc aagaccgacc 300

tccgctttca gtcctccgct gtcgccgcgc ttc 333

<210> 39370
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-H5

<400> 39370

cagattcntt ccgtccaggc aaggaagaaa tcgagcagcc aaggaaagga gaagatgggt 60

cgtacgaagc agaccgcccg caattccacc ggatgcaatg ccccgcgcaa gcagctcgcc 120

accaaggcgg cgaggaagtc ggcgccgacg accggcggcg tgaagaagcc ccacaggtac 180

aggcccggca ccgtggcgct gcgcgagatc cgcaagtacc agaagagcac ggagctgctc 240

atccggaagt tgcccttcca gcgcctggtc cgtgagatcg ctcaggactt caagacggat 300

ctgcggttcc agagccacgc cgtcctggcc ctccaggaag ccgccgaggc ctacctcgtc 360

ggtctgttcg aggacac 377

<210> 39371
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B12

<400> 39371

ctaagttagg attttaaact tagttgtaca tgggttacgc gagagcacat acacaggccg 60

caccgtacag acatggacta catcaagcac gcgctgacta tattcaccga ctttgttagc 120

agctcttgga ctgatgcttg ccattatgat gaagaacgca caggagaaat cccaagacga 180

gaagaggaag acgcggtagc tgctgaatga ataggatgac atatggtgcc agggccacta 240

cttcatagta ccatgtactc ctatcctatt gtactcataa taataatacg acgaaagatg 300

actggtggga aatgaatatt gggtcctgct aaaaaaaaaa atgggttaat tccaatcaaa 360

ag 362

<210> 39372
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B8

<400> 39372

ggcgggttcg ggattaaccc tagaaatgaa atgaaaggct gaaccgagag cggttggatg 60

gctgatatgg catatgctgc tgttgtgttg tgttgtatct gaggaatcaa tcagtctgta 120

tcgagtctct tggcaagttt tctcttgttt ggggcatcct ggtatagtag ggaagaacaa 180

tcgtgtgacc acatgatgcg cgatggtaaa ctgacaatgt ttggaaatgt aattggtgat 240

gtttttttt ggaaaaaaaa aaaaaacata aaaataaaat aaaaacaaa 289

<210> 39373
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C2

<400> 39373

cataatgagt ccctctccgg accttggtag ctgcttgctt gtggtgagcg agagtgtgag 60

actgatggag aagaggtggc gggcgtgggg ctacgtcgag agaggcgtgt tcctgtaatc 120

ctgtactcgc ttcgttctct ctgcatgcgt ctataatcgt gttcaataat aagtgagagc 180

ggtgtgatgt gtggatcccc ttgtcaggct aaaagacaat gatt 224

<210> 39374
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D5

<400> 39374

acgattaaca tgatttatgg gattatcagt cttacaagtt gctgaggttg ggcaaagcca 60

gtagagtaac ttcaggcgtt tctatcaagt gacagcctga ttagcagggc cgttactgat 120

cggagggcac tggagggcac cccgagaacc ccatctccta cagcagtgtt aaaacccctc 180

cttcagaggc actggatagg gcgtggcccg tgacagccag gggccactcc actggctttt 240

ggtgcccact gacccctttc agcagagact caaaggcctt cagaggcacc aaggacgcat 300

gatgggctgg gcaggtggaa agactggtac tttctaaccg aggctctgtc tctggccttg 360

atctc 365

<210> 39375
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E7

<400> 39375

tatgaacata tatacctacg attagctttg ggtgctcatc agtcatcacc ggccatatca 60

ccagccatat acagggtgct gtacttgagg aggcaagaga cccatatcca cacagtgctg 120

cttatcgtag tcccgggtac caggaatggc tccggttgcc agcctgagaa cctcattgcc 180

agttaagcat cgatgggcca acgctagacc gccatccatt atgtcggaca cattatgctg 240

tgaggttctt ttattctttc ttgcactacc ttgtccaggc tggcaaccgg agccattcct 300

ggtacccggg tctacgatat gcagctctg 329

<210> 39376
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B11

<400> 39376

cccacgcgtc cggacccagg ttgttgcggc ggtgaaggtg aagcaacggt gctctagctg 60

ctatgtacag cttagcaatt cagtgtggaa gggctttgtg cttactgata tagcttagat 120

ccatattgaa ctcttccagt agcttttata gctatctagt ctaggagtcc agatttgtga 180

ttttggcgat ttaggtgttc agttcttttg tacattggtt gagctagttg tgtgtagctg 240

attctattgc agcaccaccg gtgagctcta gtgacctatt tgttgacctc tgctggaagt 300

tgcatctttt gtgctagcaa ctgtgtcgtg actcgtgagt gctattgctc tgctgaaggt 360

ataaaagttg ctggaaagga tgttcctgga aaaaaaaaac at 402

<210> 39377
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G4

<400> 39377

tataactctg agccccatcg gagactcgga gtcgggggcg ccagcgtctc gcctcgccgt 60

cagcagcagc agcagctgca cctccattcc acggcttccg tcgtgcgctt cgtctgcacc 120

cacaaaggcg acggcgacgg caggggggagg agatgaagct gaagcagctg gagggcctct 180

tgggtggcct gacccagttc tccgacccca aggtactgct gactgcgcca ccggcaccgg 240

ccccacctct tgggtggcct ttctttcttc ctttctcgta ccctgctcga tttcggctgg 300

gccaaccccg acaagaggga gggggaaaag cggatgagta tctgact 347

<210> 39378
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H8

<400> 39378

aagcagggtc gttgtgaaca aacctatacc aggtcttggg agcacaagtc agcatccgtg 60

atattcacat gctctcagat tccacaggct gcaacagaag gtgtacccaa ggctacttct 120

cgttgctggt agccacaaaa ggcttactcc tgtatgtgtc ttaagtggaa agggaaatgc 180

tggcactgct gatgatcctt tgatggaatc tttgaagaaa gctatggctg atgcaaaaaa 240

gcccaggtcc atacaagact tgctgaagga gcaagtggct aaactcagag aacaagcatt 300

cggtggaggc ggaaggaatg gg 322

<210> 39379
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-003-Q1-K1-B8

<400> 39379

gcgcccacgc gtccggagtt ccagacttac cttgtaccct acccgaggat ccacttcggg 60

ctagcttcgt acgctccagt catctgtgct gagaaggcct accacgagca gctctctgtg 120

gctgagatca ccaacagtgc cttcgagcca tcttccatga tggccaagtg cgacccacgc 180

catggcaagt acatggcctg ctgcctcatg taccgtggtg atgtggtccc caaggatgtg 240

aatgctgctg tggccaccat caagaccaaa cgcaccatcc agttcgtgga ttggtgcccg 300

actggcttca agtgcggcat caactaccag cctnctagcg ttgtgcctgg tggcgacctg 360

gccaaagggc aactgtgccg tgtgcatgga tctccaactt caccagtgtt ggtgaggtgt 420

tctcccgcat cga 433

<210> 39380
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C10

<400> 39380

ctacgttctt ctgagattgc attctaaagc ttgttgttca aaaaattggt gccttatggg 60

ggaacttgtt caatatgctt caactttacg tgaaagtggt ggacccttat ctccaagtag 120

aatcctttct aatctgagga atattggatg tcgcttgggt ggtggaactc aggaagatgc 180

ccatgagttt ctaaggcatc ttgtgatgtc tatgcaagca gcttgcttgg atgggctgga 240

tggtgagaag cacgttgaac caagtttgca ggaaacaaca ctgatacaac agatgcttgg 300

tggccgtctt aaatccaacg ttaagtgcct catatgctat cacgagtctg aaagatatga 360

gaatataatg gatcttacta tggagattca tggctgggta gagtccttgc aagatgcttt 420

gacacagttc actgctcctg aagatttaga tggcgataat a 461

<210> 39381
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C2

<400> 39381

gacggatcca actcccgaac agcatctgtt ctctcactct tgcacatcaa tcattattta 60

ggtgctcgat acctagccta tagccctagc tagtagctag ccactcagtc gcgtagtcat 120

caaccttctc atccgtaccc atggccactg ccgaggtcca taccctgacc gtcgtggcga 180

ccgacgaagc gccagttgtg gagaccccat ctacgaccga tcgtccagcc cgacgaggct 240

gcccccgtcg tcgaggccaa tgtagacgaa ccagctgccc c 281

<210> 39382
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E4

<400> 39382

cccacacgtc caatatcacg tccaacacct tcacatttaa ccttatccag atcctatttc 60

agacctagtt caattatcta aaggttgtcc aaatccatat caagatccac tacctcatcc 120

aaaaccataa cctgcacatg cgccctattc acaccctaaa cctataccat aaccacatcc 180

aaatccttaa cctcaa 196

<210> 39383
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F7

<400> 39383

cacgcgtgcg acggctgacc aacaccaact tcatgtttct actccatggg atgaacatgc 60

atggggccat ttatggcttt gccaacgagt taggcaaccc tggcatgatg caagcctcgt 120

cctctgggca gactgcggac agcatcccat cagctgcggt ccgtagggat cacgacagtg 180

atctcgcgca cagagtctct gcagtgctta accaagcctg gaatgacgac caggacaccg 240

gtcatctctt ggggtctctg tacgaggtct tctgagaagc catctactcc tttgtccaac 300

caccatagat atgcttgttc gtgtagagag agacagacag acagagagat acagagagag 360

atacagacag agagagagac acctagagag agaggaaatg cattgactct 410

<210> 39384

<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G2

<400> 39384

cccacacatt cgtccactcc tcctactatt tctagttcgc cagcgcccgc ccttatctct 60

gtgctcgctc atactttctt tcgtgaaagg ttttctctac atttcctcct atacttatac 120

tttctccttt cattcttata tcaaccctct gctatccctc atcataaaca cattctactc 180

caacacagac atcttcctca gggaactcat tacaaactac tcctatgcct ttccccagat 240

cataccctct agcacaacaa acaccttcaa acctaatacc cataaat 287

<210> 39385
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A3

<400> 39385

taaatagatg acaatgacaa cattgaagtt taagatttag aatacgacgc tgaagctggg 60

gctaagagaa agctcacctc agctgtttgg aaagagttca agagagtgaa gttcaatggc 120

acagtccggg caaagtgcaa ctattgcttc aagcaacttt ctgcgtcaag taataatggg 180

acaaaacatc ttcatgttca tttaaaaagt tgtgtgcaaa ggaagattaa gttgaacggg 240

aagacattgg cacatgcttc tttgagattt ggtagaacgg atggtggaac agtttcaata 300

gagaattaca catttgatca agaaatagct agaaatgaac ttgctgcgat gatagttctg 360

catgaatacc ccttaagcat ggttgatcat gtgggtttcc gaaaatttgt tggtgctctt 420

caaccacttt tcaagatcgg aaccagaaac attgatag 458

<210> 39386
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B10

<400> 39386

tacttttttat tatttttttt ttttttttt ttttggtttg ggtttaattt tatttggggg 60

gaaccccaaa ccaaattgac cgccgaaaaa agttttgtgg ccaaaaactt agccacaaac 120

acattaaaca tgcgggaaaa atgctttccc aaaccctacg acgaacttac ataaataagg 180

ggatctacca caaacggccc ggcctttgtc taaagcgaca catggtttaa cccctccct 239

<210> 39387
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B9

<400> 39387

tttgatctgt tcgaggtatc ttgctgattt aaatgaagcc ccctccttct gatcgaattg 60

ggtatggatt tacgtcaatg cctgatctag aatgggattt ggaatcttct gttggggata 120

ggaaaatcac caacagtcat atcgctgcac ttattggtaa cagattcaag gcttcgcttc 180

gagatagctt agtgcttccg aattgtgaaa gcatctccat gccgtggatg ttggctgaaa 240

aggatgattg ggtacctcgc aaggatgctc cttttatttg gctaaatcat gagcccactg 300

agatgagaat ccatgccaca gctacagcat caactcagtc cgaggaaggt ggcttgaagg 360

atggtgggag tgaggaatca tcgagagtag tggcatccat tgacgaggca aaacatgagc 420

ccaagcag 428

<210> 39388
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G8

<400> 39388

ccaggccatc gccacagcca tttacgaaat gaagaacacc aacaaccacg aggtgacacg 60

caacattgca acgggcaagc gagcactcaa cacagacaac acagctacgt gcactggaga 120

ctaaccgacc acaagagaag aatgcattct accagac 157

<210> 39389
<211> 302
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-005-Q1-K1-A11

<400> 39389

ggaagatgac ggtgacgcca cggatcacgt tgagttacgg gcggctgacg gtgcgcgggg 60

gtacggtgct caccggcgtg ccggacaacg tgtcggcggc gcacgcggcc ggggcggggc 120

tcgtcgacgg ggccttcgtc ggcgcccacg ccggcgaggc caagagccac cacgtcttca 180

ccttcggcac gatccgggac tgccggttcc tgtgcctgtt ccggttcaag ctgtggtgga 240

tgacgcagcg gatgggcgtc tncgggcgcg acgtccctct gagacccagt tcatgctcgt 300

cg 302

<210> 39390
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A3

<400> 39390

gctgcaccgg cgccccagcc ttgacgagct ttatgtcgac acggctgtta agaagttgga 60

gagcagagat tttgttggtg ctaaaaggat tgcccttaaa gcacagagga ttttcccaga 120

gatagagaac ataccccagc tgttaactgt ctgtgaagta cattgtgcag cagaagcaaa 180

agtaaatgga atgttggatt tttatggaat tctccaagta gaaggaacag cagatgaggt 240

gaccataaag aagcattatg cgaagcttgt cctctcactt caccctgatt aaaacagtta 300

tgctggtgca gaatctgctt tcaagtttgg tgcagaagca tactcaacat tgtctgatcg 360

aaccaaacga tatgcatatg atgtcaaatg gagggctgct tccaaagttg caccaaaacc 420

agctacacag gcgacacaac ccaatcaggc tacaca 456

<210> 39391
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A7

<400> 39391

cgagagggga aaacccaaaa ccctatcact tccgccccgt cgccgacggc cgccggagtg 60

gagagatggc ggtggacgag gtgaactcgg tctacgtcgg cggccttccc tacgaggcca 120

acgaggagat gcttcgcgac gccttcgggt actacggcac catcgtctcc gtcaaggtga 180

ttaatgatca tgctgtcaaa ggcaagtgtt atggttttgt tactttcact caccccagag 240

ctgctgagca agcaattgcg ggcatggacg gcaagaaatt aggcaaccgt attgttcgag 300

taaatgaagt gcgtacaaga ggcccccggc gatttgggcc gagatgggtt cagacgagat 360

ccaagaaggt atggtagaga tccatactgg gacagaaggg acagggaacg gagctatgat 420

cgtgaaagag atccctacca tg 442

<210> 39392
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B1

<400> 39392

cggacgcgtg ggcggacgcg tgggggacgt ttgtgttgca aggcttccag gttggtgcag 60

ggcagggacg gacaagcttc ccttttgcca gattctcgga gagtacagaa tggagttacc 120

agagtacaac acgattgaac cttatgcgaa aatgaacgag aactgtccgt ccttgccccc 180

aacgtacaaa cgacccgcac gctgctgact acgagattgt ctactatgta tctttctgca 240

gctgcttcgt ttacacagtt ggcagtagag tgttgatgct atgttctgta aataaaagac 300

actatatata taggtgcttg gtagatggta gttcttacca ggaatgtagc tgcgatgtat 360

tcaggttcac ggttttcagg cgatcaggtc tgaagccac 399

<210> 39393
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B9

<400> 39393

ggacgcgtgg gcgggcatcc cgtggcggtt tatctcgagg caaggcctct cccgcgtgtg 60

cctggtggcg aaggcctact gcgtgatcca cgtcgtcaac gaccacctct gctcggtgac 120

cttagtgcgg ggcgccagca tgctgccgtc cctgaacctg gcgggcgacg cggtggcggt 180

ggacagggtc agcgtgaggc tcggccgggt cgcgccggtg gacatcgtgc tgatgatctt 240

ccccgaggac ccccgcaagt cggtcgtcaa gcgcgtcgtc 280

<210> 39394
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D1

<400> 39394

atctgattgg caccggtgga acactctgtt tttcgtttca aacttattga acgtgttgga 60

ggaaaggttg ttgagtgtgc ttgcgtcatt gaattggcag aactgaaggg ccgagacaaa 120

cttggggact gggcagtttt tgttcttgtg gaagcagatg cttgagcgga acttgagact 180

tctcttctca gagagttaga gttagcgctg ttgatgctac ctctctggaa acaacaaagt 240

ttcccatgtt tgctatagac tggctgacac gtaataaagt ttcattccaa attgtgatcc 300

cctgaatgat atgtcaatgt agacatgatt gctggtcctt gtatactgtg gcttattatt 360

caca 364

<210> 39395
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F6

<400> 39395

cccacgcgtc cgtaccaaac cagagtaact atagatcaaa attaataata aaccagaatg 60

cgatgcaaat gacaaattga atttaattcc ataaattaat aatgcgaaag tcctgagctg 120

ctcatgaccg cgagcatggc gtataccagt tttacactct gtagaggttg tacccttac 180

ccacaagtca tattactcat ctgccacggg gttgtacgga tctcatacac ctctaccaag 240

gaagcgaggc agggtaacac tacgaggcct ttacaaagtt ctactagctt cagaaaactc 300

gttacaattt ctaggaagag caatgcatga atctcccgtt tgatcgctat cgcagcaaaa 360

tcaacacgag aaccttccta cacgctcact cccctactgc tc 402

<210> 39396
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-F5

<400> 39396

cggacgcgtg ggcggacgct tgggagtttt ctaattagga gatcagttta gagggcagtt 60

ctgtattatt ttttgcataa tcaaagtgga acttaagatg caggcaccca aaaggaagag 120

agaatcaggg ggtggtggtg ggcacatgcg cgaggagctg gcgtccgagg acgacgaatc 180

cccaccaagg aagcaaccga ctgttcagca tcgtagaaag gctgtcgtgt ttgatgacag 240

cgactaggac tagtgtgtgt atgacctgac ctttacagtt tatttttcc atttcttgtc 300

gagaatgatt tatctggaaa gaagatgttg gtaactgtta aaaaaaaaat gttaataa 358

<210> 39397
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B6

<400> 39397

tctcttttt ttttttttt tttttagcgt tagggtaatt tataccctaa actgatatta 60

tcattcctca ctttatatcc catttttct taaatcatat aatttactat ttttataacc 120

ccaaatttat cccaaa 136

<210> 39398
<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H10

<400> 39398

cccacgcgtc cgaaaaaaaa aaaaaaaaaa ttaaaaataa aaaaaaaaaa aaaaaaaaaa 60

aagaaacggg ta 72

<210> 39399
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A8

<400> 39399

gaaacagagg gcgtcaacaa ttgcatgaag ctatacctac aaagccattt tcgcaaaaaa 60

cttgcttttt aacagtgcac tagtaacagc gccggtcaca acaggggcgg tagtaacaca 120

agccaccgtt gccgtcacga ttattttcag ggaaaagaaa ccaacttttg ccggaagaga 180

ccaaccaacc atggcgtctc gagttcaaag agcctttaac atgtcctcgg agctgctttt 240

ggtgaacgcg ccgacctcct tgaggttgag cacctttacc acgccgtcct tcgcgagcaa 300

tgcgtttcgg caggacctga ctccgagccc caagggcttt 340

<210> 39400
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B6

<400> 39400

tcccgctctt acattgactc atattttgac ttttaatcaa acccttattt taaacgattt 60

gttaatttct acaattgaac tgataacata tacatcctct atcatcacct atttcatact 120

ctttcaaaca ctaaatcatg acatttctat tattactttc attcatccac atatctttta 180

cacattcttg atcatacata aacaccataa tttcacaatc catacttatt tcctcacaca 240

tcttatatca tattacatct accaaacaat atttttaaaa atcatttata ct 292

<210> 39401
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D10

<400> 39401

cgggccgacc cacgcgtgcg ctacggtccc tcatcacttg ttcctctacg ttcggccacc 60

tagctcgccg cgcgcgcaag cgtgcgccac cacccactct actagcttag tctcccctcg 120

tgcagcgcga cgacagccag caatggccgc cgcccagtga ggcagggtcg cagtgacggc 180

acgagacgca cacccacggg cgctggcggc atgccgggcg acgcctacga cctcctgtgc 240

gccgaggacg acgccgccgg cagcgccctg ctgtgcacca ccgacgacga cgacgggtgc 300

tgctccgctg tcgaggagga ctcggcggcg gcggcggcct ccatcgccga gctcatcggc 360

ggcgaagccc agtactcgcc caagccggac taccccgaca ggc 403

<210> 39402
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F1

<400> 39402

gacacagata cacaatggac tgaatggatt atgcaatggt acaaattagc ggaagcggat 60

gctgtgagca agttgctaga tctttctccc ttagcttctt gacatttggt tcttgccaca 120

gctttttgat gcttctcttg gcagctggac ttaatgtttt gctattcttg tcgacatcac 180

gagttgaatt gtcaaactag tctcttatgt tctatgctga tatgccttaa ccagaaaaaa 240

aaataaacac aagtaataaa agaagcatga ataatactat tctcttaaag gttataaa 298

<210> 39403
<211> 473
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F6

<400> 39403

ccgggccgac ccacgcgtgc gcgcgcacac acacaaccag atcttcccca tatccacccg 60

tcggcacctc cgctggaaga ggcagatctt tgtgaaaacc ctgaccggca agactatcac 120

cctcgaggtg gagtcgtctg acaccattga caacgttaag gccaagatcc aggacaagga 180

gggcatcccc ccagaccagc agcggctcat cttcgctggc aaacagcttg aggacgggcg 240

cacgcttgct gactacaaca tccagaagga gagcaccctc caccttgtgc tccgcctcag 300

gggaggcatg cagatctttg tgaaaaccct gaccggcaag actatcaccc tcgaggtgga 360

gtcctctgac accattgaca acgtcaaggc caagatccag gacaaggagg gcatcccttc 420

agaccagcaa cggctcatct ttgctgggaa gcagcttgag gacgggcgca cgc 473

<210> 39404
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G3

<400> 39404

tgcgacttgc gagccttcct gcatctagtt ttcacttcta atcgtcgcca agagagaagg 60

ccttcggggt ccttttcaac cggcgccgcc gactctcgtg ttcctccccg cgtcctcgtt 120

ctccttgctg ctggacccgc tcgtggggat cgacctgatt tctcctgtgc tggcttccaa 180

ggtagaaacg aagtcttttg ttacatcatg gccttaccaa ctgcagcgcc tattttgctt 240

gaccagaacc aacagctcaa tataggcaac agggcca 277

<210> 39405
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G9

<400> 39405

tgcgagttgc gagtcttcct gcaactatcg ttcacaccga attgttggca agagagggac 60

cgttcctctt cccgttcaac cggcgccgcc gactcgcgtg ttcctccccg cgtcctcgtt 120

ctccttgctg ctggacccgc tagtggggat cgacctgatt tctcctgtgc tggctttcaa 180

ggtagaaaag aagtctttcg ttccatcatg gccttaccaa ctccagcgcc tattttggtt 240

gacgagaacc aacagataaa tagaggtaag agggccaatg gaccaagggc caaagggctg 300

aagccatgcg agaatcctgg caatcaaggg aggagagctc ttaaagattt gtccaacttc 360

tctaaaggca ctggtttgaa ggacactttc accctgaaag agaagtccca gcagaaaact 420

cgtaataat 429

<210> 39406
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H6

<400> 39406

cgtgctcttc gtcatactgc tgctgggctt tctgcatcac ccgaccatct ccggctgtgt 60

gggcggcatc tacatcgtcg cgaggttctt ctacttcaag ggatacgcca ccggcgttcc 120

ggacaaccgt ctcaagattg ggcggctcat ctacttggcg ttgcttgggc tgatcattcg 180

cacagcatct ttcggcatca acctgctcat catggagatg ctctaaactc tgggtttata 240

tgtgagctcc acgctgggtt aaccgcacaa gttactcatg gtctgagcat cataactttg 300

tgacactggt cttttgggat tctatagtgg agttctcgtt tctttctttg 350

<210> 39407
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E3

<400> 39407

cagagcaggc gcatccacaa cctgcctttc tcgttccctg gcggcgtccg cagcaggaga 60

gcgtaatcta ctgcgaggac ggtgaacgat gtcaacccgc acgagatcgt caaggcctac 120

tacgcccacc tcaagcgctc cggcaagatg gagctccctg agtgggttga cattgtgaat 180

actgcgaggt tcaaggagct tcctccttat gatcccaact ggagccaatg tgacgaaggc 240

tgctgccaag aagaaatgat ctatctggct ggtgacgaaa gctgctg 287

<210> 39408
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-010-Q1-K1-F4

<400> 39408

gagttttggc gtcctgtaca agatagctga gatatcgttc ttggcaccct acaagaggga 60

natgtttgat gttatcgaga agggagagaa acagtccaac atcactattg gcattatggt 120

ctccgatgtc atcgtgttcg ttaccgttct cttcaagctc ctgtttggtg gcaagaaacc 180

agtggcacct gtgaaacctg cagctgatgc gaagaagccc aaggccgtgg agactgacgg 240

tgctggaagc agtggtgaca aggatgagaa agaggatgaa aaggaggaga caggcccacg 300

tttgaggacc cgaaaggaga catagacctg tttttgacgt gttttagctc ttctggcgtc 360

tgcttatttt gag 373

<210> 39409
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G10

<400> 39409

gtagcactac cacattcaca aggctttaat ttacacgcct ctttgccaac ttcacccggg 60

aggtttctct gaacatatct ctgatccaat ctctcggcat gaataacttc atacctaaac 120

gacatctcat caagaataat ctccccatgg tgcaatacta actcaatctc cttatatagc 180

atgca 185

<210> 39410
<211> 139
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A5

<400> 39410

gggaacagaa atgtttggtg cctgttttat cgaactccag ttctcttgtc atttttcttt 60

gtgctatagt ctgtattatg gatgcgtatg agtattgaga tgattctgca tttgaattgt 120

cggcttaaaa aaaaaagac 139

<210> 39411
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C2

<400> 39411

ccaacgccta tgcctgttca aacgctgcct tttgttagtc acagtgaatg cttgtgttcc 60

ggtatgatct gtataggcga actgctcgta gaaaacaagt caacaacatc aaaacttgta 120

tggtccagtg ggcctgacta gtccttaaaa aaatttgttc acttgcaaaa cacataaata 180

attataat 188

<210> 39412
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E5

<400> 39412

cacggcggca ccccgtgcgt cggctgcttg ctgccccagt gccgcccccg cgttcccttc 60

ggtcccgccg acaccgacgc cggcactgcc accgccggca tggcgacccc gctccgcgcc 120

accgcggtcc tcgcgtgggg ttccggggag gacgggcagc tgggcatggg cgggaacgag 180

gagaaggact ggccccactt cgttgaggcg ctggggccct acgccgtcac cgccgtcgtc 240

gccggcagtc gcaactccct cgccatctgc gacgacggcc gcctgttcac atggggatgg 300

aaccaacgcg gcacgctcgg gcacccgccg gagaccaaga cggagagctc cccgggcccc 360

gtcgacgctc tcgcg 375

<210> 39413
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E7

<400> 39413

tacgaatgca ctgtattatt ccatttcaat ctttgaacat atacaacagc agtacaggac 60

ggttttggcg ctaaagatac atgtcaagca agcaccaaca tgctaatcat aataagctta 120

caaggcagat acaaatctgc atacacaaat gctaagcagc aatactttat taacattcca 180

gtgaaagaca cattcacaaa tcgagttgca cataacatgg aactgcattc tgaacgagat 240

acaacctgac ttcacaatgg tcctcattcg cacggcaatg agccaaccta tatgccattc 300

ttctgaacga ttgccttcaa tgcctccgac atagacctat cctagatgat cacatgattc 360

aacctaacgt cacgctgggc aaagagctga cattacct 398

<210> 39414
<211> 85
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G7

<400> 39414

cccacgcgtc cgcccacgcg tgcgctatta tactcgctca attggaattg cttatacgta 60

aggagtgatt gacgaaacta agcac 85

<210> 39415
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H2

<400> 39415

cccacgcgtc cgtgaatccc tggtcatact tatatttgtc tcatgaaatt tggtacaggg 60

gggaatgctt taaaacgccc tgaatcattt tataaatcac atatgtctct attgctgtta 120

aaaaaaaaac a 131

<210> 39416
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H3

<400> 39416

cttagattgc tcttgctacc aaaatcagca tgcgtggagt tgaaacggta gggcgttaga 60

tgattaacaa gaatggttgc ttgctatgtt tgcagtgcat tcgtgcaatt gttaacctaa 120

gattttgttg gtgaaaacga tttcttttca gacttgcttc tgttgagtgc tatcattcca 180

tatcaatgta cttcctcttc tagaattttc gatgcccgca agttcaaaag taaatttaca 240

atgtagcgac tggtaaaact 260

<210> 39417
<211> 288
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D5

<400> 39417

cccacgcgta cgcggacacc taggcttgat acgttgctgg atgcaccatg aatacgaggg 60

gggtctctgc atggtaaacg gggcatgtga cgacatgaac cgctctcagc tatacaagtt 120

atgctgctat gatctcgcat gccacctgct tgagctatac caacacaagc acaagcggac 180

taagatgctc gaggcactcg gcgtcctccg tgacatgcac cataatgtcg ccaacgtgat 240

cctaccagga catgctgaaa cgtacacggt tcatacgaat atgactgt 288

<210> 39418
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E8

<400> 39418

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgaa gcaagcagcc 60

gaaaaaaacc gtatcgtctc gcctgttcag tttccttctc ttcccgcagc ccggtttgcc 120

gaccaggttc caccgttcca gagtagccaa gcgaatcccg tgtctggttc gcgcgatggc 180

ggaggagcag tccaaccccc agcaccagca agcggaggag agggaggtta tggtggagca 240

gcagcagccg aggagggccc cgaagctgag gtacctggac ttcgtccagg tggcggctgc 300

ccaggccgcg gtgtgcctcg ctgggctcta cggcctcgcc aaggaccacg ccggcccgct 360

tccgcccagc gttgacgccg tcgagtctgc cgtcaagggc gtcggtagcc ccgtcta 417

<210> 39419
<211> 65
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H5

<400> 39419

aaagaaaaaa aaaaaaaaaa aaaattaaaa taaaaaaaaa aaaaaaaaaa aaaaagggaa 60

gagga 65

<210> 39420
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G1

<400> 39420

accacgcgta cgatagtacc tgctgaataa acctcccatg caccaacagg gagagagtct 60

ggacgtcttg tttgtaatca tgaaccgctt gtacgtgtaa tatctagtaa accactctcc 120

accttacaca taaaataaag gtggcctcgt atcggattag ccattgaatt ccgatat 177

<210> 39421
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B1

<400> 39421

ctgccactgg cttcaggtcc tagaattgtt tgctgggtcg tgcaaaaagt aataagtcgg 60

ctgtaaagct tattaagcat ctgcctaact catcaaaaga aatctattcc ttattgatga 120

tgtaccgaga tttttgaact taaagcggta ctacgtgctg ctaacagttg attaatgatt 180

tttctttgcc tctatcaaaa aaaaatcatt aatcaactgt tagcggtact acgtgctgct 240

aacagttgat taatgatttt tctttgcctc tatcaaaaaa aaaaaaatag aaaaat 296

<210> 39422
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-E6

<400> 39422

aagccatggc agccaacccc aaccactgcc tccgccgcct cgcctcagct ctctcccacg 60

gtccccggcc ttcgactcct accctatccc tcctcttccc ccgcctcgcg ctctccagct 120

ccggcccctt cacgggcccg ccgncgncgn cggcggatgc cgtaaggaaa ggggagggag 180

aggaagcggc ggaagctaag gccggcgaag ccgacgccga agcggggaaa gaggaggagc 240

atgaggccga cggcggtgcg cacgtgaaca aggccaccgg cgaggtctgc ggcccgcggt 300

ggcccgagcc cacgaggtac ggcgactggg agcgcgccgg ccgctgctcc gatttctgaa 360

ccgccgctgg ccgcgaggtg aggctcgtca gcgtcagcac ggaacctgtg gatgtggttc 420

ccc 423

<210> 39423
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-G5

<400> 39423

cccacgcgtc cgaagcaact gaagatcagc tgcaacctaa acaatgctgc ctgcaaactg 60

aagttgaagg attacaagga agctgcgaag ctttgcacca aggttctgga actagacagc 120

caaaatgtca aggctctcta caggagggtg caagcttaca ttcaacttgc tgacctagag 180

ctagcagagg ccgatatcaa aaaggcactg gaaatcgatc ctgacaacag ggatgtcaag 240

ttggaatata agatcctgaa ggagaagatc aaggagtaca acaagaaaga cgccaaattc 300

tacagcaaca tgttcgccag gatgacaaag tacctttggg 340

<210> 39424
<211> 241
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-E11

<400> 39424

aagcggaagg gtctcctcgc tctcctatct tcgntatatc agctgctgcg ggcggcgatg 60

ggggcgcgga ggaggctgct gtcggacacg ccgncggagc atcgccatag gcagggcgcg 120

ccggcgtcgg actggagcgc ggggtacctt aacgggtggc tgtcgcagcc gacgccgatc 180

ttcggcctcc gnctctgggt tctcgtcggc atcgccgtcg gcgccgccat cgtgctcgtg 240

c 241

<210> 39425

<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B1

<400> 39425

tagcactccc agtcccggct cccgccgtct tctcgacgct tccccccctct tcctccgccg 60

ccaacccagc gagagagctc ccagtccgcg aagacatggc ggggaagaag cgcaagtccg 120

gctccgagaa gccgacgaag caccgcctcc cgctgggagc cgatgccgac gctgtcgccg 180

aagcctcgaa gcgccgccga tcgggcgcca ccaagcagca ccaggcggac gaggaagcgt 240

ccatcccgcc ctctctcagc gccaagatcc ttcgcgaggc gcgcaagcag caggaagagg 300

agatgcgcgc cgactccagc gacgaacagc gaccctcagc cgccgaggcg accgcggggc 360

cgtccacgtc gtcctc 376

<210> 39426
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B5

<400> 39426

cccacgcgtc cgcccacgcg tccgataatt ataaaaaaaa aaaaaaaaaa aaaaaaagaa 60

gg 62

<210> 39427
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C4

<400> 39427

cggacgcgtg ggcggacgcg tgggcagttt tactgtagaa aatgtttgtt tggatagcag 60

cacgttagta tacaacagtg gaataggatt tgtttgtaat gttattagat gcgggcacct 120

gttgcccatt aagctatggc atggtatccc tggtttcttg tatatcttgg agagcgtcag 180

ctcttatgca ggacatagtg ctatgccgtc aaactcttgt agaaatgttg taggcaataa 240

accagtgaca cttgtcgaaa aaaaaaaatg taatataact aatataataa ttctagaagt 300

atgcacagag tcta 314

<210> 39428
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-C7

<400> 39428

tacttatttc gtctcaaact tgaagaaatc agcacatatt tcttcgaagt ccactcagta 60

ctcacctcaa ggaagtgaaa gtagtaatct acaagttggt caaggcaact tgaaacttca 120

atataatgaa gctggaaaat tatccctgta ctccgatagt aagactatgg ttcaagcaaa 180

ctttgagcag aaatacaagt attatattgg acaggatgga aatggaagtg atcctcaggc 240

ttctggagca tacatatntc cgcctaatgg cacagttcca atcagtactg atgggcaggt 300

ttctctcaca gttctgcgtg ggcccatatt ggatgaagtg caccagcaga taaattcatg 360

gatttatcag attaccaggg tttacaagga gaaagacttt ttggaaactg 410

<210> 39429
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-G12

<400> 39429

gaattcggcc gcncaccgac gcgtaaagaa gaccgcatga tgatcacagg tatgcatact 60

gtttctgata tcttctgtgt tggctgtgga tccatagttg ggtggaaata tgatgcggca 120

catgagaagg gccagagata caaggaaggc aagtttattc tggagaggta caaggtgtcg 180

ggccctgacg gaagccaata ctgggttcca caagatgctc acttgggcgg aagcgacgcc 240

gatgacatat aaaacacgat ccaacaagct caagcctgtc gttgatcccc tgtaaataac 300

ctgngtggcg ttgctcttta ggcagccgac agccggggat tgctccattg aaataattcg 360

ccggcgtaaa ttgttgctgt tccaggtgac atgatcgtat ccctcccttc ctgccgttgt 420

ccctggaagt cattagatgt taccgctgta tatgtgcg 458

<210> 39430
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-H10

<400> 39430

cggacgcgtg nnggcgttgg atcgctgagt gttactgcag ggacagtgat gatcaatctg 60

cagaggagaa tggggagttc ttcttctcca aactccttgg tatgagcata atccaaccgg 120

agttcagtga cgcgaggatg gtctcatgtc aaatcaatgg atttttccgt gagtgcatgc 180

tctcacggtc aggggaaatg gaagaccttg tcattgaact ggccgacaga tgcaacctaa 240

ccacccaacg cagcgggcgt catcttgtca tatcggaaag ctgggacaga gataagattt 300

tattcgagag catcgacttc tcacggatac ggtcaatgac agtgtttgga atgtggagat 360

cattcttcat ctccaaaagt atgaagctcg tccgggtgtt ggatctggaa gatgcattag 420

gtttaacaga tgaaaatgtt gatcagatg 449

<210> 39431
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A5

<400> 39431

aaagaacaaa atgacaataa aaaatttaaa tatcaaaaaa aaaaaaaaaa aaaagagaaa 60

ggaataaata aaaaccggag aaaggcaatc catcaaatgt gtccgccgat ctgcagcacc 120

ctacctttcc ttccggtgct cccaacttcg tctctt 156

<210> 39432
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-B8

<400> 39432

tattgtttta ggagctcttg gagatgctct aatctcttct gcacttgggc tcggcaaccg 60

tgacccgatc ttccagattt cccgtcgccg agccacgcgg gtcgagtacc cgtcgaactc 120

gccgctgtcg gatcgttctc gcttggggcg atcaagctaa cgggatttga ggagatctag 180

gccagccgcg ggcagcagcc atcagccatg agcgaggtgt tcgagggcta cgagcggcag 240

tactgcgagg cctncggctc gctctcccgc aagtgcaccg ctgcatccga cctcgatgga 300

aagaggaaga agcagaagct cttcgagatc cagtccggcg ttgaggaagc tgaatcgctg 360

attcggaaga tggacctgga agcaaggagc ctacagccta gcat 404

<210> 39433
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D8

<400> 39433

aagcttatca gagagctgtg aagccttgct tctgtactgc tcgagttctt cttcaacccg 60

cttgaacttt tcatatgtgt gattcagctc ctgctccagc tcctgtgtcc gtgagtatac 120

accttcagca tgagtctttg atgtgtgaag caaatcttcc agctccagac ttctttgccg 180

aactgaatga gcttgcttgc cgaactgaat gcgcttgttc ttgatgctct gaacatttat 240

cagtcagctc cttgacttct tgttcaagta gctgattttt agacactgag gaatctaggg 300

aggattgtag ctcaataatt ttatctttgt atccctctgc actggtcaca gtttcttcaa 360

gctgcattcc tctttctgct gatacagcag cttcttgatg aatacgctct ttcagcaact 420

ctatttcttt acttgattta acaaatttat tct 453

<210> 39434
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-G8

<400> 39434

gaataatctc ttcttcacct cactaacacc agctagcaac tctttctctc ctgcaataat 60

ggccgctcgc tcctcctcct cccagccgca gctggtcgcg gcggcggcgg tcctggcagc 120

ggcgctgctg ctgctggcgg cgggggccgg gacggcgtcg gcggcggtga gctgcggcga 180

ggtgacgtcg tcggtggcgc cgtgcctcgg gtacgcgatg ggcagcgcgg cgtcgccctc 240

cgcggcgtgc tgcagcggng tgcgctcgct caacagccgc gcgtcgtcng cggcggaccg 300

gcaggccacc tgcaactgcc tcaagagcat gacggcccgg ttcgcggcgg cgtcagcatg 360

gccaacgccg ccaacatccc cggcaagtgc ggcgtctccc gtcgcgtgcc catcagcccc 420

accgtcgact gcaccaagat caactgatcg atggaaccat 460

<210> 39435
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-G9

<400> 39435

cccacgcgtc cgtaccaaac cagagtaata ttagatcaaa attaataata aaccacgatg 60

cgatgcaaat gacaaattga atttaattcc ataaattaat aatgcgaaag tcctgagctg 120

ctcatgaccg cgagcatggc gtataccagt tttacactct gtagaggttg tacccttac 180

ccacaagtca tattactcat ctgccacggg gttgtacgga tctcatacac ctctaccaag 240

gaagcgaggc agggtaacac tacgaggcct ttacaaagtt ctactagctt cagaaaactc 300

gttacaattt ctaggaagag caatgcagga atctcccgtt tgatcgctat cgcagcaaaa 360

tcaacacgag aacctnccta cacgcccact cccctactgc tcttgccctt tcgggtaagg 420

tagttctcca ctagctttcc taattagtc 449

<210> 39436
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-A5

<400> 39436

gacaaacatt ctctggaata cggaattgac tcgatcgaga tgcatgttgg agctgtacag 60

gcaagcaatc gagcgtcagc agatcatgat cttagtggga agaagggaaa cactctgcgc 120

agcggtcaaa cttattgaac gagttggagc aaaggttgtt gaatgtgctt gcgtaattga 180

attggcagaa cttaaggcgc tacacgaaca aggggacatg ccagcactgt gtctcgacga 240

aacacatgct tgaccggaac ttgtgattta atacctcaca gagttagagc tagagctgga 300

gatgctagct gtctggaacc accagagtac tcgatgtatg ctat 344

<210> 39437
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B12

<400> 39437

cccacgcgtt cggtgatagc agggtgcagc ggctcgaagc tggaggaagc ggacgggttc 60

gccatggggt ccgagggatc ctcgggtcca gttgtcgttc ccagaaactt taggctgcta 120

gaagaactag aacgtggtga gaagggcatt ggtgatggaa ctgtgagcta tgggatggac 180

gatgctgatg acatatttat gcggtcctgg acaggaacta tcattggtcc tcccaacact 240

gttcacgagg gacgaatcta tcagttaaag ctgttttgtg atacagatta tccagataaa 300

ccaccgactg tccgattcca gactcggatc aatatgacat gtgtgaacca agaaactgga 360

ttggttgaac caagtctatt tcctatgctt ggaaagtggg aaagggaaca tacgatggag 420

gacattctga ccagc 435

<210> 39438
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D12

<400> 39438

tggaacagaa cgctccgcac caatcaattt tcgaacccat gatatgccat tacagacggg 60

cttaatcact gtctgcgccg tccagcctca actctttcac actgcccca 109

<210> 39439
<211> 300
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E12

<400> 39439

ttcggcttgt tgagccaacc ggatttactt taattactag actcatagac attagcacgg 60

gaacctcaca tatcgatgcc tcacgttcca ttatcaattc caatgagggg acaaccactc 120

actgcgctgt ctgctacaag actaactacc ttgtgcacta cctcacacgc acgacatgcg 180

catgtgctac aggcggttct tccgcttcct ccacttcaag gggtacgttc agctcgtgaa 240

ctacaacttc ttcgactgag tgctctactt gattcattac ttctacccca tggtcctgaa 300

<210> 39440
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E3

<400> 39440

ataatatggt ggtatggtat agacgatacc ctaaatacaa ttgactgagt agggacatga 60

ccacgactgg actgagtaga ccctaacatg acataacgat gtctataagt agcagattca 120

catatgacta tctgacggga taactatgag gctcgaactg attgccctag cgatcaatga 180

cgcaacatgg gagtacatta gatcacgatg agtatctgag aattgag 227

<210> 39441
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E5

<400> 39441

ggaattggaa ttccgagcta gacgtacgcg tacgcccacg cgtacggcga aagacccata 60

catagatgcg atcgacttga agaaggcttg taacggaacg ttaaaaaata ttatatggtg 120

gtatggagaa acataacaaa atacgttaga ttcattaagg acatgtacaa caatgttatg 180

aatagtgttg aacaagttat aaggatgtat ataacttttt gattaaaata ggactatatc 240

aagggtcaac tttgagcctt tacctttctg ccctagtgat agatgatgtc acaagggaat 300

acatgagatg aacatgaata tatgagatat gtggctatac aagaatggat cgagttcaaa 360

atgatgatat acgctataga ttataagtag cactagcacc aattaaagaa aaacatattc 420

aacatcgatt gagatagttt ggacatgtac aacggagatc ccaaacacac 470

<210> 39442
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-E9

<400> 39442

aacagaagct acaggccaat aatagcttga tttttagagt acaaaaatct gttatttgcg 60

ctgatagttt atctggagca gtttcatttt acatatgact gtaatttgtg agaatgcaca 120

tcttacgatt tttgttgacc agtattcata ggtttttagt tagcaatgtg ttgttggccc 180

gttgctagtc cttgtaatac aagcccacct gttttttttgc gcacggcaag acttaaactg 240

acaacatttt gtagtacctt ttattttgta tcacctgctc tatacacgag ttttcttgga 300

acatcggaaa taataatgcc ctccaaaaaa aaaaaaannn aaaaa 345

<210> 39443
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G8

<400> 39443

cacggtccct gcctatttca acgactcgca taggcaggcc acaaaggatg ctggggtgat 60

tgctggcctc aatgtgctgc gtatcatcaa tgagccaacc gctgctgcta ttgcctatgg 120

tcttgacaag aaggcaacca gtgtcggtga gaagaatgtc ctcatttttg accttggagg 180

tggtaccttc gatgtctccc tccttacaat tgaggaaggt atctttgaag tcaaggccac 240

agctggcgac acccatcttg gtggtgagga ctttgacaac aggatggtta accactttgt 300

ccaggagttc aagagaaaga acaagaagga tatcactggc aacccgaggg ctctccggcg 360

gctgaggacc tcttgtgaga gggccaagag aactctgtct tccactgccc agaccaccat 420

tgagattgac tcgc 434

<210> 39444
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H9

<400> 39444

aacggttctg actctatcca tgactgtctg tccgagaatt ggcagtttgc acttgctgaa 60

ctaaacagtt ctcattacat ggcaatctgt atagaggatg actcaacaag ttcagattct 120

agaaacggta gactgccact aggattgaaa gtatggaaga ccactccgtt cgtggaagat 180

atacttgttt ctggaacgga agctgtaaaa cttgtcagtt gagtatgtga gaggatcaag 240

tgatttcttc agatgacaat gtgatgcaac gaatgtattt ggacgaagta tgcgctgtgc 300

agggagactg aacggttttc ttcgagcata ctgcatgcat tgatgaactg accactgaca 360

ctgtgtgctt tagttaagat ttggaaatgc aacgacatac actttggagt cctgatattc 420

gtattagcat atcacgacac t 441

<210> 39445
<211> 94
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-C12

<400> 39445

gccacacgtc cgcccacgct ttctcatttg cgtccggctt aaatacgcga gcatgcgacg 60

tcatatctgt ggcatagggc acctaaattc aatt 94

<210> 39446
<211> 66
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-F7

<400> 39446

cccacgcgtc cgnntaaaaa aatttatttt tttaaaaaaa aaaaaaaaaa aaagggagga 60

gttttt 66

<210> 39447
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F4

<400> 39447

cccacgcgtc cgaagcgcgc catcggcgtt taggttaaca agcaggtcaa tgggcgcatg 60

ggcaggaggc gtatccatgt ccgtgtggag catgtgcagc cgtcccgctg cacagaagag 120

ttccgcctga ggaaggcgaa gaatgaccag ctgaaggcgg atgccaaaaa gtgcggcgag 180

gttatcagca ccaagaggca gccattgggt cccaagcccg gcttcatggt cgagggcacc 240

accattgaga ccgttacttc catcccatat gatgtggtca atgatctcaa gggtggatac 300

taggttgttt ggtccatcta cctgcagtac ccaattctac atctgtgtta ctctagcgcg 360

tgcaactttg ctcactctga gcagtagtat gaacctggtg tgtgtt 406

<210> 39448
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H8

<400> 39448

cttgcagtag gaagacggag ctgcaatttt tggcgacagc tgatattcga cgaccactgg 60

agctgcaatt taccgtgaaa atagaaatcc cttgccaaac tagccatcaa tgatgggaaa 120

acctgcgtgc tggatgatga aactttatat tagttctcat gagtaccttg taccgaccaa 180

ttgtgtggcc taatccagta agtcatcttt gtaaaatcat actaactctt attgtaactg 240

gatttggttc cgaattaatt catttt 266

<210> 39449
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A1

<400> 39449

ggtgggttgg cttctcctcc ccctccggtt cgggttcggg ttcgtgaggt tctccggggg 60

tcggtttcgt gggtgagcgg atcgagatgg ctgcgtcaga tgttgagtac cgctgcttcg 120

tcggcggcct cgcctgggcc acggacgacc actccctgca caacgccttc agcacctacg 180

gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagatgtcc cgcggcttca 240

gcttcgtcac cttcttcacg gaggaggcga tgcggaacgc ca 282

<210> 39450
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C2

<400> 39450

cccacgcgtc cgctttggtc aggaagcagc tgagtatcta agtgaatgtt tgctcagtag 60

gtcagagcaa tatcgggcaa tgattgaaga acgtgatgct tctgggggaa aatcaaaggg 120

acaaggaacc ggaaatgttc tcattgttac tcttgttgat gcggagacag aaagtagcat 180

aaatgctacc atgcttgagg aaggccttgc tcggcttgaa agaagcaaga gatgggacac 240

tagggagagg aagacggctc tccagaacct gtaacagttc caggagaagg caaagaagga 300

aaggctgcgg atttggcagt atggcgatgt tgaatcggat gaagacgagc aggccccagc 360

tgcaatgaag cctggaggtc gtcggtagag ctccccaaat gtgagactct gctgggagtt 420

atagattcaa ct 432

<210> 39451
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D12

<400> 39451

aaaaagaaag gaattggctt agttttaagg aaaaccgagt ctgaaatcta cacaggatgc 60

acaagcaacc cagacaatgg tagccccaca cacaaagccc atacaaggtc attgttgtcg 120

agctcaacac aaaagacgag caactctgag ccaaaatgag caacacaagg tcaaatgagg 180

aaaccaacaa tgtctatacc caaaaaacgg cacagaagta tgaagaccac ggcgcggcgt 240

cgttgccaag ccccaagaca ccccacgcga ggcagctccg attcttcacc aataagactt 300

ccaaacttga tact 314

<210> 39452
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F3

<400> 39452

ggcgcacgac gaggactgct accggtggat tacctccccg gacatcctct gctaccggtg 60

ggccgtcttg cagggccggc gtgatggagc aggtgcgcca ggactggcac aagatctttg 120

tgctcgacgt cgccgtgctc gccgctctcg tctgcatctg ctcatgcggg tgttgcgcct 180

tcaggaacgc tcgccgctcc cggtcccagt acccatacgg ggtaaaccaa acgtccaaga 240

taaacccacg ctgggactac tggtggcgat gatggggtgg tagaagagaa cagatctact 300

aggctagctg tagcttctca atgcctggat gatattttga tccagtcttc tgtggaaaaa 360

gataaaataa cacttgggat caaaaagaca tgaatttgtc caacat 406

<210> 39453
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F4

<400> 39453

cttggataaa tgccgccgta gatttgacct tggatatgca gattatctta gatatcgtgg 60

gatgcatcaa tttgaccagg cgatgcagca ccttgaggga gaatatgaat tcatgacatc 120

tgatcactca tatgtatcac ggaagcatga ggaggataag gtgatcatct ctgagagagg 180

agatttggtc ttcgtgttca acttccactg gagcaatagc tattttgact atcgcgttgg 240

ttgtttcaag cctgggaagt acaagattgt tttagattct gacgatggcc ttttcagtgg 300

atttagatcg cttgatcatg actctgagta ctttactgct gactggccgc atgacaacag 360

gccgggttct ttctcggtct atgcacccta cagaacagcc ctcgtatatg cacct 415

<210> 39454
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G10

<400> 39454

cgggatctta cattcattct ttctacgaaa atttcacaaa accaactcag atgattacag 60

tacacaacaa aaaacaggcc catttacata ctttaattaa ctatagatta atgctaatat 120

tctgtttttc ctagtataga ctaacatgta atgaacaagc cctccaatga acaggcatac 180

ataaataatg tgcaggttgc tctgttccac tggcagatgc attcctgcct gccttattga 240

gaaccaagtt tgtacacggg agcattgcat aatcaaaata cc 282

<210> 39455
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G8

<400> 39455

cacctgcaac tgcctcaaga gcatgacggt ctcggctcgg cggcggcgtc agcatggcca 60

gacgccgcca acatccccgg caagtgcggc gtctccgtcg gcgtgcccat cagccccacc 120

gtcgactgca ccaagatcaa ctgatcgatg gaaccatagt ggaggtagct cgctcgttgg 180

atggcagcgt acgtggccat cagcagcatg cagtcgtcgt cgtagcagag atgtcctagc 240

tacgtgtgtg tcatgcatca gactggcaca taataaagaa gtagatcatg cacccactag 300

tgatcacttc gtctagtggc ccttcggtca atggcgtcgt cgtcggcggg gaccttacgt 360

gacatgctgt agcacgtacg ctagc 385

<210> 39456
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-H10

<400> 39456

aaagaggtac acacggccac acgccatatt tagcttcctg gcttgttttg cgccctttgt 60

gaatatgtgt aagcttttgt tccctcgcca ccgccacccc cctggtgcct cttgtttgtt 120

gcaaatgcag ccgtggggat ggatggatcc aagtatggag ccatttaagc ttcggttgcg 180

cagtaaactt tataaatacg taatgtaaag gcttgtcgtg tgtggtttgt gctgcacaca 240

aaaaaaacaa caagaaactt actt 264

<210> 39457
<211> 104
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-H11

<400> 39457

gtgttgtgtg ggtgcagcac aacacaacac tctgctcgcc gcctgatgcg acgtatagcg 60

tcggtttcta tacatcttat gtctatacac taaaacagta taac 104

<210> 39458
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-H2

<400> 39458

cccgacgtac ggctcaacaa tggcgacgcg gcgccacatc ctccttctcg ccgctgcctt 60

cgtgtccctg gtcgcgctcg aggctgtgga gggcctcgaa gaggggcccc gcgggcgccg 120

gctgctggtc ctgctggacg acctggccgt gcggtcgtcg cactcggcct tcttcggctc 180

gctccaggcg cgcgggttcg atctcgaatt ccgcctcgcc gacgacccca agctctcgct 240

gcaccgctac ggccagtacc tctacgatgg cctcgtgctg ttcgcccccc tcaccccacg 300

ttttggtgga tcagtggacc agaacgcagt ccttgaattt attgatgctg ggcttgatat 360

gatcctggcg gcagattcct ctggctctga tcttat 396

<210> 39459
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-G12

<400> 39459

cccacgcgtc cggttcgcaa ttacagagat ctagagagag agatagaggg cagatctacg 60

ctagagcgac agagccacaa ccaaccgaga gggacagtcc agtatggtgg tggcgctcgg 120

gcccggccgg ttctacggca gcggcctgcc gaggccgcgc ttcttcccgg gcgaccgcgt 180

ggacccgccg gcgtccgtca ccgacccgct gctcgagtgg gcgcgcgaag cgcactggtc 240

catgggcggc atcagcgtga agcgcctncg cctgcagggc cgcatcgagg gttccgtcga 300

caagctccgc cgncgcgcgc accgcgacgc cagggtcaag gccaaggcca aggcccgcgc 360

cgctggccac atgccggctt cgctcgccgc gcttgggtcc gacgacgacg ccttcagcgg 420

cgactccgag gacgagca 438

<210> 39460
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-B10

<400> 39460

ttttttgttc gagtcagtca gacagtcagg cgcattgcat gggccatggc atagcatgcc 60

ttgctctatc tgctccatct tcttctacgc atgccttgtt ctagtggtgg tactggtggg 120

ggaacgaata attgtaccga gatgttggcg ccgtgtcgtg tcgtgtcgtg tcctgtcctg 180

tcctttctgg ggctcatata gcagtcagac tgtgttgtgt tgtgctgtgt gggccgagtg 240

tgcagtacag catcaggcca tgccccctgt tccatctcat ctgtgtgcga cttttgtttg 300

tgctgtgtca tctatctatc taatccatct 330

<210> 39461
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-B12

<400> 39461

cccacgcgtc cgcccacgcg tccgaagcat gccatgtgga ggagggcttt agcgatggtc 60

gggttcatgg ctggcgccgc gctgctcgcc ggggctgccg gcgccggcgc gcagcagggc 120

gtgtggagca tcatcacccg gcccatgttc cagagcatgc tgagccaccg cggcgacagc 180

gggtgccagg gcgccttcta cacctacgac gccttcatcg aggccgccag caagttcccc 240

ggcttcggca ccaccggcga cgagcagacg cgcaggcggg agctcgccgt cttcttcggc 300

cagacgtncc acgaaaccac cggtggatgg gcgactgctc cggatggacc cgttgcctgg 360

ggatactgcc gggtgaagga acagaaacag acggacccac cctactatgg acgaggaccc 420

atacagctaa ctcataagta caacta 446

<210> 39462
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-A12

<400> 39462

cccacgcgtc cgtaggaatt gaacaaggtc ttttcacaaa agctggaggt tcagacacag 60

aggcttgaac tattgacttc tcaaaggatg gctaacgaga atgccctggc gaaaccaatt 120

gacacacgcc ccatcaacga ggcaacaatg tatgcggatg aaggagacga ggtaagtgtc 180

cttcaccaag tatttagatg gaatttggta gttgatccta ccacataatc cttgatgtta 240

atttttgtg ctgtcatgtt gtgttcccag agtatggttc cagtgtttta gcttgaataa 300

gagctagttt ggaaactcaa ataatttccc tatcaatccc ctttaatccc agagaggatt 360

tgagttttca aactagccct aagagcttgt ttgggag 397

<210> 39463
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-A2

<400> 39463

gattaaaaga tgtttgggga tttataccta attgttgata aacgcgcgca gggcgcgcgc 60

tctggactag tatatattac atcgactagg tacacatgct tctctaaaca tacagttgaa 120

ccaactactt ctcgacaaca aatgacagac acatcaggat gtaattaagg gattatacat 180

ggcattagga aatctatgac ctatcgctat atatgacggc acaaatgttt tgactaaatt 240

gccacctaaa atgttgaaac tagtacttta caggagacag ttgtgacgaa agttaccagt 300

gctagctaca ccgaagagta cctcttcatg gtatcgatgg ctcaactgct ctgaagcatt 360

catggacgca gtctccagtc agaaatatgt gagct 395

<210> 39464
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-A3

<400> 39464

tttcgcacac ctcgacgcct ctctctcttt cccctagctc tcgaaaccct aggtgcgtgc 60

cgaccggcgg cggcggcgag gtgatggcga tggacccgga cgcggtggcg aaagccttcg 120

tggagcacta ctaccggacg ttcgacacca accgcgcggc gctggtgggg ctgtatcagg 180

agacctccat gctcaccttc gagggccaga agttccaggg cccatccgcc attgccggca 240

agctcggatc tcttcccttc caggcctgcg agcaccagat cgtcaccgtc gactgccagc 300

cgtcggggcc ccagggaggc atgctcgtct tcgtctccgg ttccatccgc accggccccg 360

aggagcaccc catcaagttc tctcaggcat tccatttgct gccggcagct gggtccttct 420

tcgtgcagaa tgacatgttc cgcctgaact a 451

<210> 39465
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C12

<400> 39465

aaagagattc gatgaagcta ttgcgcagtt tagtattgtt ttgacagaag atgaaagtag 60

tgtgaaagcg ctgttcaggc gaggaaaagc taaatctgaa cttggccaga cagaatcagc 120

gagggaagat ttcctcaaag cgaagaagta ctccccagaa gacaaggaga tcattcggga 180

gctccgtttg ctcgcggaac aagacaaggc actataccag aagcagaagg agctctacaa 240

aggtctcttt gggccaagtc ctgaagcgaa accgaagaag gcaaagtacc tcgttgtgtt 300

ttggcagtgc ctggtgtcat ttatccttta tctggctggg atgttcaaac ggaagaacga 360

gtaggataat ttaccagaaa attgtgtaga actggtggcc taattgacca accttgtatt 420

ataaggagtg ttgaattttc t 441

<210> 39466
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C5

<400> 39466

ccagagccaa agcctgagcc taaacttgtt ctcaagacca gaaccagaac caaagccgga 60

gcctaaacct gaaccaaaac cgaaaccaga accggagcca caaccaaagc cagagcctaa 120

gcctgatcca aaaccagagc ctaaacccga accaaaacca gagccccaac caaaaccaga 180

acctaagccc gaaccaaaac cacagccaga acctaagccc gagcccaaac caaagcctga 240

ccctccacac atcccaccag cagctatcaa ctgaggaagt ggctattaac aattattgta 300

gtgtttaaat aaaatgccat gttgcagcgt gcttttgtag gtgctgctac ttgttgtatc 360

t 361

<210> 39467
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G8

<400> 39467

aaaaaaaaaa aaataaataa aaaaaataat ttaaaaaaaa aaaaaaaaaa aaaaagggag 60

ggatttttaa aaaacacagt ctgcctacaa aacaataact atttacatac tatcctaata 120

aacaccttct acataccttc actttcaaca cctacctgtc tcaagtttat gcgcctcttc 180

ttttaatctt cgtccctcca catttccctg tcgtaaccct gcaacttata caca 234

<210> 39468
<211> 272
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H2

<400> 39468

cccacgcgtc cgatgattac gagcaagtgt gagaagcagc tggctggcct gaaggcaagg 60

agggcgtttg gagtcgtcac actcaggagc aaggcgatgc gtatgtacat atatcttaat 120

aagcagcttt aggatagctt ggtttgctcg accgacatgt tgcaagttta tgcgcctttt 180

tctttattct ccgcccctcc agttttgccc gttgtagtat ggaacttata acatgcgtgt 240

tttatgccgc atcttacaaa atatttttgt cc 272

<210> 39469
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H9

<400> 39469

cccacgcgtc cgcggacgcg tggggttcct taagtttcct cccggcaagg aggagaacag 60

ggcgtataaa tatgagggcg agagaccaag tgtacccctt tcctctgcat ccactcttac 120

gtagtgtctg ttgcatcttg catggaccgt cattacctcc tgtttcttga cagtgtttgt 180

cacctctcac cggccagggc tcccactaat agaaataaaa cttttgttct aagc 234

<210> 39470
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B9

<400> 39470

gcttctgggg ggcacatcat cttcttccat tgcctgagtc ttcttggcta ttgcctattg 60

ccattggatg ttggtgctct agtttgcatg ctgaaggaca atgtcatact taagattgtc 120

gtggtgacaa tcacattggc ttggagctcc tgggctgcgt atccattcat gagcgctgct 180

gttaacccaa ggagaaaagc tctggcccta tatcctgtct tcctcatgta tatctcagtt 240

ggtttcctca taattgccat tgattaacgg ggttgagctt tgtagtaaca tctgaagagt 300

tgagagtttc cttggatggt tgaaccacca gaatacatac aagtttgagt agacaatgct 360

tctatccttg taccctcgtg gagtctttgt gaattgcctc gtaagaattt ttgtttttac 420

atg 423

<210> 39471
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C1

<400> 39471

gaagaaagtt cgcggacatg gaagtccagt tggtcatgaa acttgttccc tacaagattg 60

gtaacaagga tggcaagccc tacattcagg tcaagatcaa ggatggggag aacaaggtct 120

tcagccctga ggagatcagt gccatgattc ttggcaagat gaaggatact gctgaggcat 180

accttggcaa gaagatcaat gatgctgtcg tcactgtccc tgcgtacttc aatgatgcgc 240

agaggcaggc aaccaaggat gctggtgtca ttgctggcct caatgttgct aggatcatca 300

atgagcgcaa ctgctgctgc tattgcctat gggttggaca aga 343

<210> 39472
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D5

<400> 39472

ccttcttctt cttttgtgcc ctcgttactg tcttgcgtgg aaatgataga taggtggaag 60

tggtaccctc cgatttgtct tactttacta cctgtgtaat tagctatccc ggtcttgctg 120

acaggcactg ggccaaacgg tgtacctaat gctgtgctcc tgctctcaaa gacctgc 177

<210> 39473
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E3

<400> 39473

caaggctgaa caaacgcgca tgccaggatg ttgctgtttt gggcctgggg tttctcaaag 60

ttgatgctcg tgcacggaag gatactcaaa agattgacca cacagtgaag gagagagcag 120

cacttcttaa ccattttgcc agagcattta aggagcgagc tcagtcagac ttgaagaaag 180

ctgcagacaa acattggagt gatggtgcct tggaggcaga cctgcgacga gctgacttgg 240

ttgttaaacg acgtgccatg gaagacgctt tcatggcatt gaagtttgtt caggatatcc 300

atgacatgat ggtgaacaaa atatatgagc agctttcgaa agacgggtca tcttctcgta 360

caaattcaac agg 373

<210> 39474
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F7

<400> 39474

gacaaatata atggcaccta tatttgtctg aagtcccaaa gctctcaatc tattatgccg 60

acaaggctag ctgcatatgc gtcattagcc acttacactt aaattattcg tgactaagaa 120

ttcaggaatc tttttcttga ttaaaaaaaa aacaataaaa agaaaaaaaa aaacaacaaa 180

aaaaaaaaac gactgcaaat tag 203

<210> 39475
<211> 133
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H3

<400> 39475

acaacacgta cgaccactct tgaggcactt tatttccaga gacagcaggt ctgccactcg 60

aggggatcta aggtgaccta cgcgggcttc caacaccatc gatctacaat aggggcacct 120

aaatttaatt cat 133

<210> 39476
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-D11

<400> 39476

aagcaagagc caagttctgg tggttgtaga ttgtttggaa ttaatatatg ctcagctgag 60

gaagaagtat tacctgaggt tactgctcca ggtgttggtt atgagcagac tgctgcctct 120

gtagagttga actcggataa gctctcacag ccatctgatg tcaacaattc tgatgcccta 180

gcagctagca gtgaacgttc acctcttgaa tcccaaagcc ggcaagtgag gagctgtacc 240

aaggtaatta tgcaaggaat ggcagtagga agggctgtag acctgacaaa gcttagtggc 300

tacagcgatc tttgccagaa gctggaggag atgtttgaca tcccagggga gctgggttcc 360

acactaaaga aatggcgggt cattttcact gatgatgang atgacatgat g 411

<210> 39477
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E12

<400> 39477

ttttctggct tgtctgtgat tcttgtagag ttcagcactt gtatggttct atgttgggcc 60

attagttttt ttttaactct ctttctctga ctgccccgat ttgccgtata gaattacatt 120

tctaagcgca actagccaac ctgtagcatt ttctgtcacc agcatttgaa gttttgaact 180

gagccctggt cgtgtccctg aggtttgatg tgctcttggt gtactactcg tatttgctaa 240

ttagaaaagg acctttttgtg ggtttgctag cgtttggcac taacgcccac gctagaactt 300

<210> 39478
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-F10

<400> 39478

aaatgtagca gcaatcagtc aagctacctc acctcatggt aatataacat cttgaacaac 60

cataatacaa aatgaaatgc agttctgtca cgacaacatc gcattcataa gcaataccac 120

ccatctagta cctagcaagc atcaccacac gaaccttaaa ctgacgagta ctaacagcga 180

tacaaggaat atcatatctg taccaagcac tgcggagaat gactt 225

<210> 39479
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-A11

<400> 39479

tcgcacagca tttccttgag aacgatctat gcgaatgata ttgagacaca tttgaaaaag 60

ggagatatgc tcctttgcta tggccctttg cattccaggc acccaagaac atncccgtgc 120

aagccctaat taaagggtca cagttcccaa gcaaatgcct tagctcagca aactctgatt 180

gcacattggc agagcattgt gaaaatattg acaaattact tgaatgtttt aaaagcaaat 240

tatgtccctt cagtcttaat cagcaaagtg ttcactcaaa tcttttcatt tattaatgtt 300

cagttattta atagtcttct tcttcgacgg gagtgctgtt catttagcaa cggagaatat 360

gtgaaagctg gattggcaga attagagcag tggcgcattt atgcaacaga agagtatgca 420

agttcttcct gggaagaatt aaaacat 447

<210> 39480
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A3

<400> 39480

ctcttggata tgtactcatg tacttcctga ggggcagcct tccttggcaa ggtcttaaag 60

caggaacaaa gaagcaaaag tatgagaaaa ttagcgagaa gaaagttgca acatcaattg 120

aggctctatg ccgtgggtat cctactgagt ttgcatcata tttccattat tgccgttcac 180

tgcgatttga tgacaagcct gactattcct atctcaagcg attattccgt gacctttta 240

tccgcgaagg ttttcagttt gattatgtct ttgactggac aatat 285

<210> 39481
<211> 206
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A9

<400> 39481

cccacgcgtc cgcccacgcg tccgcccact cgttctccca cgcgtccgct tgcagttatg 60

gaaccttgtt atattgtatc ctgcaatttg ttttttgcaa cttataagag taattttatt 120

tgatgagtct taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa taaaaa 206

<210> 39482
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B6

<400> 39482

catgatcttg cggcctgaat ttcagctgac gcactgcaaa acgtgtggaa gtgacttgtc 60

atttgtagtg ccaggacgaa caatatgcct ggactgaatt ttcaggcgtg gaaatgtagc 120

tgtaggtcga attggtgtac agaatggacg aggtacatat cataaatgtt atgtaaattt 180

agtgggggca ggggtgatag tggttaagaa atcctgtaaa gatggaatac attttatacg 240

tgtaaaatac gagtatttaa gggccacgct gtaaaaatag atttacctgt aaaagataat 300

gaacatatgg tcctactttt acca 324

<210> 39483
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B7

<400> 39483

aacggacaat ggtgcatgct aaggatgctc catcaaccga accactgcta ggaaggaagc 60

atccgtagcg ctaggattac gattagccct gtatctttga tattgctcct gataatcatt 120

accaatgtga aatggattat attttgaaaa taccatcttg atgatgaatg acaaccaaaa 180

atgattgaga acaggcgtgg a 201

<210> 39484
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D10

<400> 39484

aagctttggc ggatgaagtg ccacgccata tgatggattg gcttcattgg tcaagaaagg 60

ttggcagaaa ccaggaccac cacgcccgaa ccgtgctgga caaaatcatg ccgccagaag 120

ttgtagggag aagcttggtg aagtccatga gataggaatt tggtgagatc acatagcaga 180

ttgccagaaa agtgctctat gaaatattgg tagaagcact gggtgggttc gggatattgg 240

ctccgcggcc acaaatg 257

<210> 39485
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D8

<400> 39485

tatacacgca cgtgcacgcg caggggcatg gctatagcgt caccaacatt gtactatggg 60

gtggaccgag agggtcggta caggacatca ctgcagatcg gacaccgcag cgtcttcaca 120

gcgtcaccga tcgtgctggc gctgccgtcg actacatcga gttcacctat actgacagcg 180

ctgggcagag gcgcgccgct gggcgttgcc gtggacttgg cggcaatgtt cgaacgatcg 240

accttggcaa cgccgatgat gtcagggaag tctcggcaac atacggtgca tttg 294

<210> 39486
<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E4

<400> 39486

gtcctgtttt tcttttaggg ttcgctgcag atttaaggta cacattactt gatctacaga 60

aaaa 64

<210> 39487
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E7

<400> 39487

cacggagaag cgaaaccgac ctttcccccc cccccgcatt ccacctcgcg gagatccagg 60

ccagccctag ggtttcgcca gcggcgagcc aaactccacg agcgggggaa gaggggaaag 120

cagggacgac gagggggcag ccatggggca acagtcgctg atctacgcgt tcgtggcccg 180

tggcacggtc atactggccg agtacacgga gttcaccggc aacttcaaca ccatcggctt 240

ccagtggctc atgaagcttc ccggcagcaa caacaagttc acctacaac 289

<210> 39488
<211> 77
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-G11

<400> 39488

gcgggagcca cgcgtgggcc cacgggtgct agatcgcgag cggtcttccc agnaaccagg 60

cagacgagga cggaagg 77

<210> 39489
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-032-Q1-K1-E6

<400> 39489

tctgtctcgt atcatttcat gactccaact ccagtcaagt tgtttcgtac catcgactat 60

gtctatgcga agggatggac gagtatggtt cgtacgctgg agaattgact ctgcaagccg 120

attgatcaag tgcagtctac atgcgtttgg gcgactcctg atctagctcg cggacatgca 180

gatcggcaaa gtggcttcag gtccccagat aatggcgctg gcanagtgac aagtcgccgt 240

caaatgtcgt ctggtggcaa aggtcaaagc aggaaggtct tctctgaggg cttgcagaac 300

cgtggaaatc gggnggaggg tggaacctgg aagctggaag taggataccc actcaagtca 360

gtagaagttt aaaatccaac ctgtagggct aatatgtgat tgcatgttat catggtgttg 420

cgacacaaag tccctgatgc ctcttgatca tctttc 456

<210> 39490
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E8

<400> 39490

ctcggaacga tcactgtatg aaagttttct ctacaacggc ctgccatata tcaaaggcag 60

gctgcaatgt gtgcatgcag tgccagacgc ccagttcgaa gaagtttcgg ataaaggtca 120

agctgatgat cctgccttca ctagatactt ggccttgcat ccaaaacgat tttaaataag 180

tagcataagc atgacctctg tcggactcat gattacccgc acaaaggaca aggccctaga 240

gta 243

<210> 39491
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-D2

<400> 39491

aacggtccaa ggcgagtgac aggcagggcg actcgggcgg ccttccatcc gccggaccgg 60

cgccggcggc ttccaacctc gccgtcaccg gagtggccgc agatggaagc ttggcagcaa 120

cttcaagctt gcttgaaggg cggatagtgg atagccgcca ggcgctcacc gncgccggct 180

cccgccttcc cgagccgcac gccgccagat cccaccctca ggtgccgccc agcgccggat 240

cccgcttcac cgagctcccg gtcgccggat cccatcgtcc cgagtaggcg ccgccggatc 300

ctgccgtccc agagcaggcg ctgccggatc cgtcttcccc g 341

<210> 39492
<211> 186

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A1

<400> 39492

aaacccccccc aaaaaaaatc gggggaaaaa aaaaaaggcg tttgttgtta cactgggcaa 60

aaacccggag ctttattctt caccatgtag gggttaacct ggcccggtta aaggcttttt 120

ttttaaatag ggaaattact ttggccaagc ttcccccaag tttggggctt tgtcgtcaat 180

gggaaa 186

<210> 39493
<211> 115
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B4

<400> 39493

cccacgcgtc cgcccacgcg tcctaaaaaa aataaaaaaa aaaaaaaaaa aaaggaaagg 60

taaaattaaa aaaaaaataa aaataaaaaa aatttttaat ttaaaaaaat atata 115

<210> 39494
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C5

<400> 39494

tacaggtggt ttttgttgga gggcgcactc agccaggcac tgtaaaacct gaagaaggag 60

accgtcaccc ttattcggtg ttagattgtg cgtcacagcg tgaagcaatt ttgcctttcg 120

tactctatat ccagaaaaca ttgcgcagga ggcctttctt aataaagaat cttgaaaatg 180

ttatgcgtaa attcctgcaa tccttggagt tctttgagga aaatgagagg aagaaactcg 240

ccatattcac agcccttgca ttttctcaga agctatcagg gcttcctcct gagactgtgt 300

tccagccatt gctcaaggat aatcttgttg ccaaagggat agtactttca ttcattactg 360

agtttttcaa ggagtacctt gaggaaaaca gcttggatga tttgatggca cttttgaaga 420

aagggcaaat ggaggacaa 439

<210> 39495
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C7

<400> 39495

gacggcgccg gcaagcgccg cccgccgtgg cgggcgcggg acaacaacgg tctcgcggac 60

gcgctggact gcagcgacca ccaccagcag cagcagcagc aggagcggat cgtcctcgcg 120

gcgacgccgt cgtcgtgctc gctggccaga tcgtgctccc tggaccggcg cgtcgagttc 180

ggcgtcaaga acaggagctc gtggctgccc ctccgcggct gcgaagccac ggcgccggcg 240

ccggccgacc cgtgggagat agagccgtcg tcggaggact acacgtgcg 289

<210> 39496
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F12

<400> 39496

acggctcgta cccaccttac ggtggagcat cctatgggtc tcctccaggt gctccagctg 60

cagcgcctca caacggtgga agttatggtg ctgcaccata ctcgtcgagc tatggatact 120

aatccggagc aagagcttgc ctcagactta gggaaggagg gttatcgtta tggttttgtt 180

tgctagtcta ttcatctgtt gagaactcaa gattgttatt gttaggacgt gtgaactttg 240

gtgttctagg ctgctttcag acgccagtgt cgatatactc tctttgcttt attgttgcgg 300

aatttatcgt 310

<210> 39497
<211> 138
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F8

<400> 39497

cccacgcgtc cgaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaggagg 60

gacattctaa aaaactccaa acttacatac gcctcatgct acatcatacc tcttctatag 120

agacacctaa attcaatt 138

<210> 39498
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H7

<400> 39498

cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggaaaata taaaaaataa 60

aaaaaatata aaataaaa 78

<210> 39499
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B11

<400> 39499

aacgacgtct ctttagattg aggtaaccta attgcattca agtgaccgct tttttacaac 60

tacggatctg gaaaacccct gacggtaccc gacttaatct cttagcaaca cattcacctt 120

taagcacctg gcgtctgatc taaaagccca tgaccgagcg cactttccag cagttgcaca 180

ccctgatggg cgaatggaac gccctctg 208

<210> 39500
<211> 176
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-D6

<400> 39500

tcgtctcgtc ccacgtccgt ccgtcccacg cccgtccggt tcgttctcag agagnngcct 60

gcgagggagg gggctcatct tgggggagtc aacannacct tgaggggatg annggtttgt 120

ggccnnngtg ggttctcaag ggcngccagc ntttggtcga ccccttgnng tgaagc 176

<210> 39501
<211> 126
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G8

<400> 39501

ttttttttt ttttttttt ttttttttt ttttttttt acgggtttct gcatctgtaa 60

tagctatttt tttaagcgca aaacatgtct tctctttggt gctataaaaa gcctatagtt 120

tcaccc 126

<210> 39502
<211> 335
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-D11

<400> 39502

tatgtttgtg tctgcatcct gtcagcaatt aggatgtgac aggacatggc ctccctccaa 60

tgcaaaaatc ccaaaagctc cttgcaggca cacttatttg cattctttgc gctgacatgc 120

agttaggatg cgatagggcc tccctccaat gcaaaatcac attaaccatg tcaccgctgt 180

caattgtttt tttgagtttg ttcccaaaac ctcttaatta ttattgccca cggatagtca 240

tgttatctac ataatccgtt tttgccactc ttcagggttc tgcattgtga atagaggttc 300

atctttgtga ttagattgcc accgncgctg ctttt 335

<210> 39503
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D2

<400> 39503

aaaaaaaata aaaaaaataa aaaaaaggaa tatgattaaa aaaaaaaaaa aaaaaaatga 60

gcgaaagctt tagtaagata caaacataca aacgcgtgca tgcaaagaca tagaaagtat 120

gatagagtta cctaaatgta gttttctaag gccagcttaa gaacgtcact aactgggaga 180

atcccggcgt tgcgcaacgt aatggccttg ctggacatca gcctttacac agatggcgtg 240

atatctaaga tgcccagtac gatcgctctt gtcaccgatg gcgaaaccta ta 292

<210> 39504
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-E8

<400> 39504

cccacgcgtc cgcccacgcg tccgtacatt tgcttaaaat gtgaatttat gctcatggat 60

ggacaaagtg caaatcaaga gtaaaggtat gtttctaagc cttagtacat tggttttatg 120

tactaatata cttgtctaag tgttagaaac agaaagaaga agaaaagaaa agagatgaaa 180

aaaggcttgg ctgggtacag ccaagactca gctcggtctg gcacaccgga ctgtccggtg 240

gtgcaccgga cagtgtccgg tgcgccaggc tgactcggcg cgaagtggcc gctctcggga 300

attcgtcgac agcgtacgac taanattcac cggactgtcc ggtgtacacc ggactgtccg 360

gtgagccaac ggtcgtgaaa agaaatgtgc ccttgggcca tttctaagta ttttgtgatt 420

gagtgccaac acaagtgc 438

<210> 39505
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F10

<400> 39505

cccacgcgtc ctcccacgcg tccttcctct cgtccgccca cgcgtccggt tctagatcgc 60

<210> 39506
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F3

<400> 39506

cccacgcgtg cgcagacgcg tgggagagta aattatacct ctgatcataa aattgagcgt 60

cggcttcaat agatggatgc agaacaatta tgacgaacgg attcatgtga tgggcaatct 120

aatcggtgag gcacggaatc aacatcagga tcactagcac aaaacattca ctccagaaca 180

aatgggggtg agcatggttc tcagcaactg caaaccctgt atcgcgtcga ctctctagat 240

ggctaccaga tgcatgacag tgaacattct cttgaaaaac tgcctaagta tcgacaacga 300

tacagcatgc cgctgcaatc ttatgtgata tgagaagaaa cattgaatcg 350

<210> 39507
<211> 71
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F9

<400> 39507

gccacgcata ctggaattga cacttgattt gacaaaaaaa aaaaaaaaaa aaaaaaaaag 60

gaaaaataaa a 71

<210> 39508
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-G11

<400> 39508

atcggcgagc atgaggggcg gcggcggcgg cgggatgatg gacgatgaag agagggtggg 60

ccatgcggag atcccgacca gtttcggtcc cgagctgcgc gcctgcctcc gatgccgcct 120

cgtcaagacc tacgaccagt tcagggagaa cggctgcgaa aactgcccgt ttctagagat 180

ggacagagag cacgacaacg tcgtcaactg caccaccccc aacttcactg gaattatctc 240

tctgatggac cccagtagga gctgggcagc ccgttggttg agaattggca ggttcattc 299

<210> 39509
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H10

<400> 39509

tatcactgct gcctaacact aaacaagatt tctctcaggc ccccgacccc gatggtttgc 60

tcgcacaccc atcacatggc cgcctcctcc ccttccacct cctcccctaa tggcagatgc 120

taggcggcgg cgcccctctt gagaagtgaa agggaaagat ttgttttgcc gcccgcgccc 180

tgctcaggcg ctcggcctcg gtcgggccac acaaggtagc gccttccgcc tcgttgcctg 240

acccattcct gtttcgttcg aagcactgaa gcagccccag accgacgcca ggcgcccagg 300

ccagtggtcg acgcctgtgg tgagctgata ggcga 335

<210> 39510
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C7

<400> 39510

ccttgtgctg tcaaatccga caagcttttt tctcttcctg tttatatgta aattgtgaag 60

tccgtactta ttaggatctg ggcctgaaga taccggtaca actgcaacag ctgtgatggc 120

ttggagctga gtcatgggta aaacggccac agcgatgttt atagaatggc actgccctga 180

tagtaattta tcgtgttcaa tgtatgtctc catagtcttg cacccaactg ccaactcatt 240

agttctttat tcttggagaa cagtttttgt cagagtgtta tactgtcatg atatgatcca 300

ttctttgtag acacagagat tacaacacaa aataag 336

<210> 39511
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D5

<400> 39511

gaaaccccca tggaaacctt aactccaaag ctccattaca aaaacggctt ggaaattgga 60

attctactac cgtttttagg ctgtttaaaa atacccgaag attcccaaaa aaaaaaccca 120

aaaaaacccc aattggatct ttactccctt tactgaactg ggtctccttt tccttgccta 180

ctacagtact actagtggga tccgtccatt tgacaagaca acacccgggc ccaaacggaa 240

ac 242

<210> 39512
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H3

<400> 39512

tactgatcta catgcaatga gccatggttt gtatcgctac tgggctatga cacaagatca 60

acggcttctc attggtgcag cttatgcgct ggttgtcgtc atccagcaac cagtccttac 120

atagatgctc aaaattcgct cttggcacat gcttctgtag cagctcgaga ccttacgaga 180

gatcaagctg tttataatgg ttaggccgtg atcatcctgc acatcatgtg ctactagtct 240

ctaacatact taccaggtga ccaatcagc 269

<210> 39513
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-C2

<400> 39513

tagaagggct gatggtgcac cctccatggc tgcacttgta tgcagctctt gtggtacata 60

gtgttgttaa cagtgacctg gatgcttaac cggttgtcaa gtgaagaagg ctcaaactac 120

cggaagaatg attgagatgg ttgaacacag aatcttaccc tctcagttgg atagact 177

<210> 39514
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E5

<400> 39514

ccagtaattc tatctgtctc tgtttattat tatcatctac ttacaagcaa ttaggataat 60

tatcccaatc aaaaacacgt gacttctcta tagccctata cagctgcttc cacctccagc 120

agttctgact tcagaacaag cccagccatg ctagaacttc agccacagct ggacgatggc 180

gtgccaacca atagttagcc catgatgtca gctacacatt tctgatcagt gagaattcgt 240

catcgtgtac cttgctatgt gtttcttaat ttctgtctat gtacactgga atcacaccca 300

gggatctgtt aggatgatga ttagtgtgac tttgatgctg acaaggggggc tggaggccct 360

ggttgacaca ggcagtcagg aaaa 384

<210> 39515
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F4

<400> 39515

cctgatcagt gatgcaatgg ttactggatc tgtgcagatc aactctgcac cggctcgtgg 60

gcctgatcat ttccccttcc agggactgaa agacagtggc attgggtccc aggggataac 120

aaacagcatt aacatgatga ccaaggtgaa gagcactgtc ataaacctgc cgtcaccatc 180

ctacaccatg ggctgagata ttcttgttaa gtgttctata gctccatgag catgtagaga 240

gttaaatgtt tcatagccac gtgagatttg gacgctattt acacctcagt tcttcctgca 300

gaagatcttt tgcagtttaa agaataaagt gcgttgaaag taaaaaaaat aaatatttta 360

aaaatgtttt tgaaataata a 381

<210> 39516
<211> 92
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F6

<400> 39516

aaataaaaaa aaaaaattaa tttaaaaaaa taataaaaaa aaaaaaacaa aagaaaaaaa 60

aggaaaaaat tttaaaaaaa cacaagaata ca 92

<210> 39517
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A7

<400> 39517

attccaacac cgagaggctg agggcggcga tggcgaacag gagcagcgga tattacttgg 60

gtttcgatcc catgtgcgta gactgggacg actatttcta cagggttcac atccccggtg 120

ttgtcaagta cctgtgtggt tactaggtta atacatattt aagatccgga gagagccaaa 180

tgtatcttcg catgttttaa tacacaaata tgtcgctgta gtttgcagat tattaatttc 240

cctagcattc ttgttcagtg gtacaggttt ttaagaatgg tacttgtttt cctttaaaaa 300

ataac 305

<210> 39518
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B6

<400> 39518

aaaaaaaaaa aaaaaaataa aaaaaaaaaa taaaaaaaaa aataaaaaaa aaaaaaaagg 60

gggaataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

ataaaaa 127

<210> 39519
<211> 102
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F2

<400> 39519

aaaaaaaaaa aaaaaaaaaa aaaaaaaaat taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

agaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 102

<210> 39520
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-A11

<400> 39520

cccacgcgtc cgcccacgcg tccgcccacg cgtccgggcg tggtatcgct ttcgcgtct 59

<210> 39521
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-A7

<400> 39521

ggcggctgcg gcggagcacg gaggcgaagg aggaggagca gcagcagcag gcggcgccga 60

ggagcggcat cccactcagt gcttgcaacc atggctaggg gattgaagaa gcacttgaag 120

aggctcaatg cgcccaagca ttggatgctc gacaagcttg gcggagcttt tgctcccaag 180

ccatcttctg gacctcacaa gtccagggag tgccttcctc tgatcctcat catcaggaac 240

aggctcaagt atgctctgaa ctaccgtgag gtcatttcta tcctgatgca acgccatgta 300

cttgttgatg gcaaggtcag gactgacaag acctaccctg ctgggttcat ggatgtcatt 360

tccatcccta agacaatgga gaactacagg ctgctttatg acaccaaggg gccgttncgt 420

cttcacccaa tcagggatga agatgccaag tt 452

<210> 39522
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-D4

<400> 39522

ggccggatga cacgccgtgg gatggaggca cgttcaagct gactctgcag tttacagaag 60

attaccccaa cagacctgca actgttcggt ttgtttcgag gatgtttcat ccaaacatct 120

atgcggatgg aagcatctgt ttggacatcc tacaaaacca gtggagccct atatatgatg 180

ttgcggcaat attgaccctc tattcagtcc ctgctgtgtg ac 222

<210> 39523
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-040-Q1-K1-E5

<400> 39523

aggcagtgag aacgacaggc tagcgttctt gcagaggagg tggtgactgg tcagtgccga 60

gcagcaagct ccattggaaa tgccaacaag atgacgtacg agaggctttc agggagtaat 120

tgagaataag aacgttttca tgtgttcctg cgagtgttct cgtcgttttt ctttctcttt 180

ttcttgtttt tgcaatgtga tcaatcatgc gactagtgtt tcttttcttt ttatcagtgg 240

ccaacaagtg tatgacggaa atttgattca tactgcactt ggcatgtaaa tccttgctct 300

tattaatgct gntcttggat tgtgtcaaaa aaaaaacaaa aaaaaaaaaa aaaaaaaaac 360

taaaaaaaaa acaaaattaa ataaataaca atctcaaaac aaattttaaa aaaaaaaaaa 420

gggcggc 427

<210> 39524
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G1

<400> 39524

cagaaccagt taatccgttc acataatcac atgaaaacta gtgtcatcaa gaaatgaaga 60

gaacacatat tagcatactg atgatgcgaa actctccagt ttccacgcct tgatgaaatt 120

gtacatctct caagaccaga tatagatatg gttcctgtcg gaggtagcaa gagctcctag 180

tccgcaccat gcacttgcca agacgggt 208

<210> 39525
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H12

<400> 39525

gtttcagagg ggcttaaatt gccacttagt ggatcatttc aacgcttatt catgatctct 60

gtacttgggt gaagaaatat tgattatcag agatgctgct ggagcacctg acgtcttaac 120

cagacttgag gggccgcaac cgaatccagg tgacggcaca gcagatgcag tgatatcgga 180

atatgaaagc taatgcctca gtgctgactg tagctccgca cctagctcct gtttatggct 240

cctttctcct ctttggtcat tttctcagtc tcgcgcgtat ataaagcttt ctagttctag 300

tgttgtcaaa aaaaaaaaaa cttacagaag caaagcgtag cataat 346

<210> 39526
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-A10

<400> 39526

agaatatagt actagatcct caccactggg ttcatcaaag agtgcaagca ataggatgac 60

tgatccatca ctgggtaaag tagattcatt ccacaaggaa aaggacatga tcaagatcga 120

agaaaggctt ccttctggag ctcgggttat aatccaatct gcacctttgt gtgaagatag 180

tgatggcagc aatgaatcac tgtaaagggc tgtgttacat atgttnttct tctttttatt 240

tcattttact gagaatgaca tttgttggaa tttggtgctt gagtgtggca tagctcttgg 300

agtaggttca aaggtattga ttttgtaaac tgtgaatgtg atagtcaaca ttttctcaca 360

ccttgaagaa gagaatactg tatcttgctt taaaaaacat acaaaa 406

<210> 39527
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B8

<400> 39527

taccgagatg acccagcatc acttgtacat tttcaactat ctcacaaaaa actgtcaacc 60

cgaatcattt catctgctgc ttgggctcta acaatcatga actgatcagc aattactcac 120

taaaataact caatcacttc taacatacct atgacacaga cattgtcttc atcaattacc 180

gctgaaatca cgtatgaatg taccatgtat ttacatacaa agttagtagt tttatttttc 240

aataatttag ataatttttt 260

<210> 39528
<211> 202

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-C5

<400> 39528

cccacgcgtc cgcccacgcg tccgcgacga ggagctttta gtccagacaa caccctacta 60

tatggactga ggataaatgc tgattctaaa atatgtaggt gcatttcagc gtagtgtact 120

atacgaacga attaggaact agctgaaggc tttacgtgta ctcttatagt cttatttcta 180

gtagggcagg agttggtgac tt 202

<210> 39529
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D1

<400> 39529

tggcttctcc tccccctccg gttcgggttc gggttcgtga ggttctccgg ggttcggttt 60

cgtgggtgag cggatcgaga tggcggcgtc ggatgttgag taccgctgct tcgtcggcgg 120

cctcgcctgg gccacggacg accactccct ccacaacgcc ttcagcacct acggcgaggt 180

cctcgagtcc aagatcatcc tcgatcggga gacgcagaag tcccgcggct tcggcttcgt 240

caccttctcc acggacgaag cgatgcggaa cgccatccag ggcatgaacg gcaaggagct 300

ggacggccgc aacatcaccg tcaacga 327

<210> 39530
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D5

<400> 39530

cccacgcgtc cgatagccac ctgtggtcag cagctgctgc cgtgttgtta gaataaagtt 60

ggtggcgatc gatcgatctg tggtgatgag tgtccctatc tgtgtgtttg tgtttagttc 120

cagtcgtctg tgaggaagtc agttatgttt gagtgagagg ggtacttcgc tcttcggtga 180

acactgtact tgtcatgagg agagttttca tacccggagt gtacgaactc tgtactgtac 240

tcggatcctt ccttttttcat cgaagtgggt tttattttat caaccgtatc tatactcgtg 300

gttttgctat taaaaaaaat aa 322

<210> 39531
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F9

<400> 39531

tattctcatg tcctgagccc cgttccgcaa tgtaaaccct agtgcccatc agggaccttg 60

gggcctacga tgcgctcatg acgggtgcgc gctcatacca tgagctgcag ccgacaatac 120

caaccgacca tggctacccg catccagttt gagaacaact gtgaaattgg cgtgttctcc 180

aagctgacaa atgcttactg tctggtatcg aatggatggt cagagaactt ctacagtgcc 240

tttgacgctg atctcgcata tgccaatcct gtggtcaaga cctccattgg tggcactaga 300

ataaactgcc gactttgtgt tggaaacaag aatggacttc tattgccaca tactacaacc 360

gaccaagagc ttcaacatct 380

<210> 39532
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G4

<400> 39532

agcgaacaga gcactgaagc agagcgagcg agctgtcttg ccaaactctc acggccgacg 60

gcacaatggc gagctatata gcgctgttac tgcccctgct actgctggcc ttgccggtgg 120

ccacgcgcct ggcgtacgcc atctgctcat tcgagaagat cccggcgatg cgtgcgtaca 180

cttcatacag aggacctgcc 200

<210> 39533
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A6

<400> 39533

taaaatattg ccagtcccgc agtctagatg gccctacgcc gccagctcgc cctcgccgtg 60

ctcgccctgg cggcaaccac agccgcggcc aactccggct tcgcggactc caacccgatc 120

cgtcccgtca ccgaccgcgc ggcctccgcg ctcgagtcca ccatcttcgc cgctgtcggc 180

cgcacccgcg acgcgcttcg cttcgcacgc ttcgccatca ggtatggcaa gagttacaag 240

agcgcggcgg aggtccagaa gcggttcagg atcttctccg agagcctcca gctcgtccgc 300

tctaccaacc ggaaaggcct ctactaccgc ctcggcatca accgcttcgc ggacatgagc 360

tgggaggagt tcc 373

<210> 39534
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C3

<400> 39534

ctctcccctc ctctcctccc gtctcctacc ccgaaccaac caaacctcac cgaatcgcaa 60

cgacagcgag aacgtccaaa cgagcgcgat tctccggcga taaccaagag cgcgggcacg 120

caaagcggcg aagcgggaag gaagcagtaa cgatggggct tgactattac aagatcctag 180

gcgtcgacaa gggcgccacc gatgacgacc tcaagaaggc ctaccgcaag ctcgccatga 240

aatggcaccc cgacaagaac cccaacaaca agaaggaggc cgagaacaag ttcaagcaga 300

tctcggaggc gtacgaggtg ctgagcgacc cgcagaagcg cgcggtgtac gaccagtacg 360

gcgaggaggg tc 372

<210> 39535
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G3

<400> 39535

tagagacaga cgaggacgag cacaagcgct tgcattagga tcaagtgaga agacacgata 60

ggaaaaaccg tgatgggttt catgaaatgt tggaagaaca tgttgctgat ggcacactta 120

atgcacgaac tcggtggcgt gagtactgtt cacagataaa agatttacag tgctacttgg 180

atgtagcatc aaacacatat ggctctacac cgtacgagtt atttgatgac gtgatcaacg 240

tacttggccg acagtctcaa gaagaccaga tccacattta agaaacggtg taatctggag 300

agattactat gacaacttta tgggccttag acgaattcca aactgctact ctggacgatg 360

atgctcttaa 370

<210> 39536
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A5

<400> 39536

cctctacatt tcttctctct ctgctcctcc gcctccgcct gatccatcca agacagggat 60

cgccatgtcg gactcggagg agcaccactt cgaatcgaag gccgacgctg gggcgtccaa 120

gacctacccg cagcaggctg gcaccgtccg taagaacggc ttcatcgtca tcaagaaccg 180

tccctgcaag gttgtggagg tttctacctc caagactggt aagcatggcc acgccaaatg 240

ccactttgtg cgcatagaca tattcaatgg gaaaaagctt gaagatattg ttccttcatc 300

acacaactgt gacattccgc atgtgaaccg tactgagtat cagctgattg atatttctga 360

ggatggat 368

<210> 39537
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-B5

<400> 39537

ttgcagtagt aaccatgaat ttactaaggt gtgataacaa cagtatgtaa atactctggc 60

gcgacattag ttcgacagga aatgttccaa ttctttcttc ggttgaaatc aagaacaagt 120

caggtacagt gaaaagttca caacggaagt ggagggcaaa ttcactgcac catgggatca 180

gggttcccgg cagcaagaat atcaagcaac gagttctggg gctccagctc gtcgtgccac 240

aggggtagct tgtcgccagg gtagaagttc ctattcacgc catccgcatt tattgtaact 300

gtacggacaa ctcctccgct agcaccatca cgggccatag caagggaaac taccttcacc 360

acaaatttct ctgcctcttn ctggctcatt ccctctttcc attcatgatc aagaagtgca 420

taaagataac tg 432

<210> 39538
<211> 85
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-B6

<400> 39538

aaaaaaaaaa aaaaaataaa aaattaaaat taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaa 85

<210> 39539
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H9

<400> 39539

tatcccacta gtagcatact gcgtccttcc tgctatctgt ttactcacca acaaatttat 60

tattcctgcg attagcaatt atgctggggc gttcttcatc ctgctttttg cttccatctt 120

cgccactggt attttggagc ttcgatggag tggtgttggc attgaggatt ggtggagaaa 180

tgagcagttt tgggtcattg gtggcacctc tgcacatctc tttgctgtgt tccaaggtct 240

cttaaaagtg ctagcaggga tcgacacaaa cttcacggtc acatcaaagg caaccgatga 300

tgatggtgat tttgctgagc tgtatgtgtt caagtggaca actcttctga tccccccc 358

<210> 39540
<211> 69
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F1

<400> 39540

aaaaaaaaaa aaaaaattaa aaagacggtc ttatataata gaaaccaagc taacgaacac 60

gggcaggct 69

<210> 39541
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G8

<400> 39541

aggcaactta gtgttactca gatgtttctt ggacttgtgc ttctactttc gtggatcggg 60

ataatcaaca actgtgaaca atagattgta ctgtgtgtgt gtccatcttg ttgcttagat 120

gcaccagcta ctacctgctt gtcatccttg tgtggaagaa gagctctata agttgtcact 180

gagtattcct ggaatgcaga acttatgggc tgtgacgaga tcatgtacat attatttgga 240

aatgactttt ttgatgcaaa acaaaattgt ctaaaggtac atacgctggg cttgtcaaaa 300

c 301

<210> 39542
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H10

<400> 39542

caaactaaac tcaaccatgg gttcaattca actaaagccg ttgagatttt taaaaatcgt 60

tcgtcacaat gaacattttt aacccattta aaccatcatg ggggcacatg attttaacaa 120

aacaccgtta aaagttagtt ttgcaaaacc aggaaggcga acttggggga acatacacgc 180

cctgggtgta cccaaggatt aggagtggac cccatgaaaa gtt 223

<210> 39543
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D6

<400> 39543

cccacgcgtc cgcggacgcg tgggtttgat tggatgaaac ccaagacatc ggcaaaagca 60

tgcatgcaca ctagggtagg tctttgccaa ccttggaagc atagtttctt gaatagtttc 120

tctttttttt cttctttctt cctagtattt tcttcccttc tcttcgcatc atatgatgat 180

tccttagtgt ctagctgctg tttttgtgta aacctctgta agtttcctgt tccatcacat 240

atgagtaagg ccttttttgtg tctttttatc taagtaaaaa aatatgat 288

<210> 39544
<211> 58
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G10

<400> 39544

tcgcccacgc gtccgcggac gcgtggtaaa tttcttaggg aagttgtagt ttttccgc 58

<210> 39545
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H4

<400> 39545

cccacgcgtc cgcccacgcg tccgcccact cgtccttcca cgcgtccgcc cacgcgtccg 60

tacatttctt ctctctctgc tcctccgcct ccgcctgatc catccaagac agggatcgcc 120

atgtcggact cggaggagca ccacttcgaa tcgaaggccg acgctggggc gtccaagacc 180

tacccgcagc aggctggcac cgtccgtaag aacggcttca tcgtcatcaa gaaccgtccc 240

tgcaaggttg tggaggtttc tacctccaag actggtaagc atggccacgc caaatgccac 300

tttgtcgcca tagacatatt caatgggaaa aagcttgaag atattgttcc ttcatcacac 360

aactgtgaca ttccgcatgt gaaccgtact gagtatcagc tgattgatat ttctgaagat 420

ggatttgtga gccttcttac ttc 443

<210> 39546
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H6

<400> 39546

gaatacaatt tgatgttgtg agctctcatt tgtaccagct tctgcttgat tcctatctca 60

ccctttattg atgggattag gaggaattcc tgccaccaag gacaacggga tttgccattt 120

tggcgctgtc tggacttaac actgaagctg ctgatctttc tcttgtactg gtaatagata 180

ggtttatacc tggaattaat cgaataccat attttttttt gaaacacata ctaatttatt 240

tgctttctat accattgaaa ttttgtcatg tattgttggt ggaagtacta ttgtgctttg 300

aaggaattga aagactttga taaagaaaac 330

<210> 39547
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H8

<400> 39547

aaaaaaaaaa aaaaaactaa aaaataaata taataaaaaa aaaaaaaaaa aaaacaaaaa 60

gggaaaaaaa gggcggacaa tatggagaga tccatgctaa catacccatc catgcaacgg 120

gatcgccgtt ctatagggcc ccctaaattc aatcg 155

<210> 39548
<211> 325
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-D5

<400> 39548

ggcgttggag acgccacagg tcctgatctg agcgcgcaat tggttgcttc gaacgaagtc 60

ccagtccatg gttgatcagc tgagcatttt gcatattcat tcccttcttg cagttctgtg 120

aatagcgagg gtgtgtgctt cattggaagt tgaatcgctc gaagtgtcat ggtttatcgt 180

ttccggagta gacatccatt ttgtttttca gcttgtcatc gggcatgcca tgtatatttg 240

cttggtattg tgttcttgtt taaaatttcc agtcttgtgt atattggatt tgtttgtcgc 300

tggagatctt angattgttg caata 325

<210> 39549
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A5

<400> 39549

tacgggtgtg agaagactac ttattcggtt ttcaaaacag acaccaatag agcaaaaggg 60

gttatctgac acaagcgtca tgtccaccta tgcattttat aaatcatcat tctctgatcc 120

atctactctc aaacatatca ctgagttctc acccaggacc tactactcct ggatatgaca 180

cactaacact ccactaaccg tctatagtgc acctcagagc attggatatc gccctgaccg 240

tgccaagtac ttcgatgaat actctgagca taatgaatca tacctgaccg gtgaattaca 300

tggtgactac ggatggaaca ctcatgaact atcacctgac c 341

<210> 39550
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B6

<400> 39550

tccggtgttc caagctttct tacgcctttt acaaggcctt cgctattacc agcgctgggt 60

cggtaaatgc cggcgctgcc aagaccaccg tccccaatcc ggccaaggcc tacgacggca 120

agtcatagaa ggcagcggct gacacgccaa agaaggccgc tgctgctggg accaagcgca 180

aagtgcccga gaagaacgtc gtggcgaagc cgaagaagtt ctccgtcgcc aaggccaatg 240

ccaagcccaa gaccctgaaa tgccctgcct acaagaaggc acggaaggcc tccgcatgag 300

atgggttgct ttaggtctaa gctctgattg atgctggtgt cagctaggta ctgtacaaac 360

tatgtgtgtg cccaaagtgt ctcatgcggt gtgctatgtg cttaagaagt tcta 414

<210> 39551
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C5

<400> 39551

tactttccac tgattggcga taggtccgtt ttccttttgt aaaagtggcc gtgtgactgt 60

attgtgcatt cacagaagat gtatcggaca ttcttaagtt tttgattttg tttctctgta 120

acaatgtatc aaggcacgat ggtct 145

<210> 39552
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C6

<400> 39552

aaacagcgtt catgatatcc catgcacgtt gtcctcatgg aatttgtact ggcgaatgaa 60

tagcacagcc tgcagctatt caccccattt gcctgccctc atgattttag agcaggcgaa 120

tgctctaaaa tggtgatgat ggtgttctct ctatatcggt cacactagaa cat 173

<210> 39553
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D3

<400> 39553

cccacgcgtc cggccctgcc catctctttc gtgctcctac cccccgcctt cttccgcccg 60

ccgcctcagc cctcaaggct tttccttctc atcttcttct caggccgggg acgggcccga 120

cggggacagg gacaaaaggt ggtgcgatct tgttgggcac actccgcctc cgcgcgcggg 180

aagagagaga gagagagaga gagagagaga gagaaggacg gagggtggca gggccgccgc 240

gccggtgagc cgacccccag ccatggcatt gccggctccc cccgtccgcc tggcgctgct 300

gctgctcgtc gcgctgccat tctgcgccgc gcatcccggg ccgggggcct tcaacgctcc 360

tcgccacttt cagacgcccg cgctccactc tgatggattt ggcttggtgg 410

<210> 39554
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E12

<400> 39554

ttcgactcca cgcttgagcc aagcgttcgt acggcttcta gaagaccact gaaggggttt 60

cggggatgct gctgatggtg tgccttgtgg aggtttcttc tgctccaaag agacaagaac 120

aaatactgga agaagaacta cattctcccg ataacaagcc acttattgtg agagacggga 180

acagatggct aatgcaggac atagattgta gcgggttgtg caagacgagg tgcactgcac 240

attccatacc caacttgtgc actaaggcgt gtggcacatg ctgagtgagg tgtaagtgtc 300

tcccacctgg tacatctgga aatacgcaac tatgtggagc ttgctacact gatatgacta 360

cccatggcaa cacgaccaag tgcccttaga gaaactaccc attgcgaaat gtgtgcttca 420

ttgattatgc accgaacttc aagtgtacta gtatgt 456

<210> 39555
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G5

<400> 39555

tacggctgct acacgacgac actatggcat ttaacgccta cacaaacacc atctatcatg 60

ccactcatga tgtgggcttc tgtcactgcc aatgcactca aactctcttc tgtctccaaa 120

cctcatctct tgcctccttt atctttctcc agatgcttat cttccgtctt ggatggactt 180

aagtacgctc attcacatga atggctcaag caccaatgct cagtcgcccc cattgttatc 240

actgaccatg cccagtacca tcttgtagag gttgcctatg tggagctgtc agaaccacat 300

gacacagttt ccaacaagtc tggcttctga tcccgttaaa ctgttaaagc aacaagcgat 360

ataaaccctt caatctcgca tgagatcgcc tatgtcaaca aaaagcttac aaaaactcct 420

tc 422

<210> 39556
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A10

<400> 39556

tacatgcagc gccacatcgc tactcttaat gtttcaatag acttgggatc aaatgtgcaa 60

gggtacttcg cttggtctct gctggacaac tttgaatggg tcgccggctt caccgaacgt 120

tatggcattg tctacgtcga ccgcaacaat aactgcacgc gctacatgaa ggagtctgcc 180

aagtggttga aacagttcaa cgccgcgaag aagcccagca agaagattct tacgccagct 240

tagaaatcgg gggcctcatg atgtgggtgc agcccataaa aaactggtgt gtggtttgga 300

accgaaaatt ttctggcttt ttccgccacg agaggttctg gaggcatact ctccagcacc 360

gtggctaata acgcattgtt ccaattcagt ctggccttgt catgcatgca atatataaag 420

tgatgg 426

<210> 39557
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A7

<400> 39557

tatttttcgg gatagctgtg gctggacgat tctatttcgg aacacgaatg tcctagggaa 60

aggggtctta tgcagatgga ttagggcctg tgttgcttgg gggcttcaca cttgctttaa 120

taactgggtg catcctcctt ctggatgggc agagtcaatt c 161

<210> 39558
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-D2

<400> 39558

tttttctttt attttttttt tgtgcttcga ttggtcatgt tgatctcgag agcaagatgc 60

catggccaac catgaggtac tcgtttcacg gagatggtat atgatatagg tgatcggagt 120

gatattttac atggtgcata tagtaacttg tcgaactgag aatgttttac ctgtgatgta 180

catcggactt ggaagctttg tatcattgat acacctttc aatggtggcg aataaattta 240

cagcagatgt tttcaataac ctttttaaaa aaaaaaaact gccttaagga ctaaagttac 300

catagaacaa atttaattaa aac 323

<210> 39559
<211> 90
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E3

<400> 39559

aaaaaaaaaa aaaaaaaaat taaaaaaaaa gttttattta acaaaaaaaa aaaaaaaaaa 60

aaaaagaaaa gaattaaaag aaaaaaagag 90

<210> 39560
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E7

<400> 39560

atcgcctacg agaacgccgc ctacatctag atcttcgtca acaacgtctg gaagttccag 60

ttgggggggt tctacaactg ctggaacacg ttcgtgggcg accacacgac gcatgcgttc 120

gtgttcaccg acaatgcaca tgacgcgagc gtggtggtgg tgtcgttccg gcgcacggag 180

cccttcaaca tgcgggactg gtccacggac gtaaacctgt cgtggctggg catgggcgag 240

ctgggccacg ttcacgtcgg cttcctcaag gcgctgggcc tgcaagagga ggacggcaag 300

gacgccacgc gggcgttccc caaagccgac cccaacggcg tcccgggcaa accgctggcc 360

tactacgcgc ttggcgagga agtccaaaag caactgcaga agcacccgaa cgccaacgtt 420

ctggtcaccg gccac 435

<210> 39561
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F1

<400> 39561

ggtttgtttt ttaagttttt ttgggttttt ctttttttt ttttttttt ttttttttta 60

aacttaaacc aaaaaaaccc ttaatttact ttttttaaat cgtaaacttt ttttttaaaa 120

gatccaaatt taaatactct tgcattctaa ttcaaaactc ttttataatg ccacctaaat 180

ttaaattaat ggccctcatt ttaaaaaatt atgaatttta aaaacct 227

<210> 39562
<211> 260
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-F10

<400> 39562

tattgttcaa gaaaagttgc ttcaaaaaat gtttgctgat aacattggat cgcagtttaa 60

cgtagcctgt ataggttaaa cgtttgcctg tangtgatgg catatggatc gctcgtcata 120

aaaaaaatct tacagaatat gttctagatt ttattggtga aaggaaaaat gttgcagatt 180

taggtagttc aattagagac aatcgattca aagatcagaa aacaaggctg caggtactgt 240

ttggactttc attgactaca 260

<210> 39563
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-D11

<400> 39563

tcggagcgaa cagagcactg tagcagagcg agttatttgt ccggccaaac cctcacggcc 60

ggctgggcaa tgccgcgcca tctcgcgctg ctcctgcccc tgctactgct ggcctcgccg 120

gcggccacgc gcctggcgtc cgccgactgc gcgggcgaga agttcccggc ggggcgtgcg 180

tacgcgtcgt gcgaggacct gccgaagctg ggcgcgtcgc tgcactggac gtacgacgcg 240

ttcaagagct ccctgtcggt ggcgttcgtg gcggcgcccg cggcggcggg cggatgggtg 300

gcgtggggcc tgaacccgac gggcgaaggc atggccggcg cgcaagccct ggtggcgctg 360

gcggaggccg gggccgcggc gcccgccgtg cggacgtaca acatcaaccg ggtacgtccc 420

gctgggca 428

<210> 39564
<211> 107
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-049-Q1-K1-D3

<400> 39564

cgggtccgac ccacgcgtnc cgaaaaatgc aaaaagaaaa aattattaaa aaataaattt 60

ttaaaattct aaaaaacaaa aaagaataag aaaagaggaa aaagggt 107

<210> 39565
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F4

<400> 39565

cccacgcgtc cgaagccctt gagctcagtg tctctgacat tggtggtggc tatgagcttt 60

atgttgatga agccaaacca agaggcgatg gccagcgtgg tggtggtaga tctggtggcc 120

gttctggtgg gagatttggt gaccgttctg gtggccggcg tggtggtggt agatttggtg 180

aaagatctgg gggcagggat ggtggcggca gattcggtgg ccgacgtggt ggtagggatg 240

gcggccgaag acgtggtggc cgtggctttg gtaacaagca cagcgctggc acttccagtg 300

caagaaagaa gactactttt ggtgatgatt gatgatgaac gcggaggatg cggcaaaagg 360

atccaatgaa attgtgtttt tttggtcttg gttgggtacc gtaactggaa tttggtattt 420

tttggctact atttact 437

<210> 39566
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G1

<400> 39566

tcgcggacgc gtgggcggac gcgtgggtga tcactcatca tttactcgcc tactactgtg 60

gattggtatg ccattataga cttggtgctg cgaaagactg ctttggtgat ttgtgggttt 120

gttgctgtgt aaaaagatcc tcatggcttc cagaagacca tgaaggtttg gatctatcat 180

gtaattcctt gttatctgcc aattatgtat ggactatgga catgtgttgc gctgttcaac 240

tcactacaaa taagtaatcg atatattccc taaaaaaaaa aataaaaaaa atttaataaa 300

taatataa 308

<210> 39567
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-H4

<400> 39567

taatgacaat aacaggaatg ctgttattaa ctctgaatct gcctccagag agctatagtt 60

cagacacagg caacttaatt gatgtgaaca ttgagcctgc tgactcagcc cttagtgcac 120

atgctaagcg cacaaaggag ttccatttct gttcaactga ttttcctgaa cccagtaagt 180

ctgtgcctta tacgttggcc actacctctt tgtctgcagc agcttctaca aaccaaactg 240

gtgatgttcc catgtccagt acacctgctg ctgcttgttt gccctctggt aatgtgcata 300

tgcatgaagt cgttactact tatacaccgg tacctattac gcctgtcttg gctacaacta 360

tacacttt 368

<210> 39568
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C12

<400> 39568

aaaaacaact catcgatgtg agtatacacc aacgaatggc tgaataacac agtaggacga 60

tggaatgaag gaggtagaac agaataacac catgcattga tgccctgcta tctatggcgc 120

cgggtgagtg acaaggctga gaaaattgaa ctctgctact atagcgtgga aaatgaagag 180

caacaaggaa tggaaattaa cgggccggga ctcttccggt gtacaaggaa ggaacgtact 240

ccatcagttc atggtgttac cgtagctcga cgacccgccg agaatgtgcg gatgatgtcc 300

tccggcaccg gcaccgtaca gccccgtggg aggagccatc gacatcgagg tgccggtgcc 360

ggcgcccgaa cca 373

<210> 39569
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E12

<400> 39569

cacctgaagg agatcatccc ggaggagtgg gagcaagcag cagccgtcgg tgg 53

<210> 39570
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F9

<400> 39570

tccgggccta catttcttca tcggctcgta aactcctcac ctaggagacc tgatgcgggg 60

gggtttacga ccgggcgggg gcggaattca tgcctccgga tttacaaggg ccgtcggtga 120

gcgcacccga cactgcgctg attgctgtgc tcgttcagca ctagacctta cctactgcta 180

aaccaactac atcggcggcg tgcctgcaac catataacat atgtctttcc gaggcctctg 240

gcgacgtcct cggaattcct aacactgacc gtatgccttc acg 283

<210> 39571
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G5

<400> 39571

cggacgcgtg ggtgcagttg gtgtatacat ttatccctag ccctgaccca aagataagct 60

tggggtagat atgaaaagag cttgtcgttt gcgtgcttac tcttgtgtgg agtgctcgag 120

tggcgatgag tgtatgtatt gtgaaaggga tacgggatgt ggctagatac atgagttatc 180

atgtctaaat ccacacgtat gatgatcatc cgggtttatg tacattcatg 230

<210> 39572
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H2

<400> 39572

gcgcccacgc gttcgcggac tcgtgggcgg acgtgtgggc tttatcattg gttttggaac 60

ctgcggcggg aaggttctgc cggcacttcc ctgagccaac acgtcttggt atcagatctc 120

cggagtctca acgatctcag ctatcagaga gttgtctcaa cggtctcaac tatcaaagag 180

ttcatgccgc tatctagcaa ggctgctatg taactgaacg atatgaatat gggttgattt 240

cctgggctgt tgaagatgag gagactgatg ctctgttgcg caataaaatc gcttcaccat 300

tttaaaaaat aaatt 315

<210> 39573
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-E5

<400> 39573

ccttcccttc ccttcccact cccattctct ttctctcacc ccttccgtct acccgcgcaa 60

gcggcacacg aactagcagc cacctttcac gtcccccacc ctctggttca tgtcctgctg 120

ctccccatgt cgcctccact cgagctcgac tacataggcc tctcgccgcc ggcggcagcc 180

gccgccgctg aaaacgacga actgaagggt actgagctcc gcctcgggct gccagggtcc 240

gggtcgccgg accgccgtgt cgaggctgcc accgcgacca ccctggacct gctcctggac 300

aagggcgcca agcgcgggtt ttctgacgag gcgcccccga catcgcctgt tgccactgcc 360

ggaaagggaa agaaggtggc acatgaggag tacgacgaga agaacgtggc agcgaccccg 420

caaacggccg ccaaagcaca 440

<210> 39574
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-F10

<400> 39574

aaaaaaataa aaaaaggggn nacgggcggg ggttaaaagg ggaacgggaa aaaaaaaaaa 60

aacccccccа agaaaccctg ggcaagggcg gaggctacca ccacggcctt ttttttgcgg 120

gttcttaaac cagaaatccc ccccttttggg gtccttaagg gaccgcggga agaaccccaa 180

aaaaacaaaa aaaaaaaaaa gggggggggcc cccaaaagaa accaagctta aggacccggg 240

caggcgacaa aaaaactttt ctaaaagggg acccaaaaca aaaccaccgg ccggggtttg 300

acaaaccccg gagggggaaa acccgggggа acccaaaaaa acccccttgga gaagatcacc 360

ttttgcaagt ggggacacaa aaaaaagccc cccaaacccc 400

<210> 39575
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F4

<400> 39575

aaagccaact gcaccatcaa aacatccttt tcagatccac agctccctcc aaaagaacga 60

gagcggcggg tgccaatgcc gaggctcatg aagcgtattg caaaccgtct taaggattct 120

cagaacacct ttgcaatgct gagtacattt aatgaagttg acatgaccaa tttgatgaag 180

cttcgttctg attataaaga tgaatttgtc acaaagcatg gtgtaaaatt gggtcttatg 240

tcttgctttg tcaaggctgc tgtttctgca cttcaaaacc agccaattgt caatgctgtc 300

attgatggtg atgacatcat atacagagac tacgtagaca tcagtgttgc tgttggcact 360

tccaagggcc ttgtggttcc tgttatccga gatgctgata ccatgaactt tgctgacatt 420

gagaaaggga taaacaacct tg 442

<210> 39576
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G3

<400> 39576

gcctcaaggg ggtttaggat ctccacctac ttgtattggt ggatccgtca gggggtttca 60

gagagcattg gccgacaact cgagatcgtt caggctccct acttatttgc acgagaggtt 120

ggtagccatt cgcggcgcaa agtacgcgtt tagaagacca aggaattgct ccgacagtaa 180

ggaccttacc ggggtccttc acattttcca gaagaaagtg cacaacgcct ccagaggctg 240

tgcacaaggt aatttaactg aatcaacagg ggttcccttc ctaaaccggc ttactgggga 300

tacacttcat aggtacctag aggatcaaaa cgttgcaaat gatccgtggc acggatttga 360

agaaaggtac ctcaaggagg aagttaacag tcttataaat tcaactctca acgagcgcga 420

gagggacatt attcgattat atcatg 446

<210> 39577
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H2

<400> 39577

ggggacggta ccggcgccgc tcctccagct ttggggcctg cgcacgctcg tgctctcggg 60

gacggcctct cgggcgagag cccgcggtcg gtccgggcgc cgctgctcca cctggacctg 120

cgcgggaacc ggctgtcggg cggggtgccg ccgctgccgg gcacgctgtc gtacctgtcg 180

ctggcgggga accgtctctc gggccccgtg gacggcgtgc tgcggcgcct gccgaggctg 240

acgttcctcg acctcggccg gaactggctg tcgggcgagg tcccgggcga ggtgttcgcg 300

ttccggcgca tcgcgtacct gcagctgcgg aagaacgcct tctcgggcga gctccggccc 360

gcggggcgcg tgccggcggg cgccacggtg gacctgagcc acaacgcgct gtcggggcgc 420

gt 422

<210> 39578
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H7

<400> 39578

aagcaactgt ttcttccagt gctgtgcaca ttttaactgg tatcaacatt gtctgcacat 60

ggaaatttac tggcgaaatc agtccagaat cagaagatgt cgatggaact tcactgtatc 120

aggcatcact aggccacctc agtattcgaa atactgacaa aaatacagag ttccctccag 180

cagaatcttg gataactgaa ggagattaca tctcgtggtc aaaatgctct aacggatctg 240

aactcgtgaa tctgaaaatc agctggaagc tgaagaaccc tgatcaacca caaccaccat 300

tcagcaagta caatatctat gtggagaagt taacggcaga ttcagacttg aaagttccca 360

gtcccaaaag ctatcttgga gttgctagtg tcgatgcctt ctatgtgtcg ggcttagagg 420

tctccaacga agtcaccggt ctgaaat 447

<210> 39579
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-D10

<400> 39579

gcgagtaatt ntgcatcagc tgcaagngaa cgttttgccc gacttactgg attgaagcag 60

gcaggggaca tagagaagtt agagatgtca gcaacgccga ccacaacagt gtgtatttca 120

tcggtagagc aacagggagc tgcttcttta agtgcgaaga ttaccaatgc ttctgtttct 180

gaaggacaga agaatcctgg aaattatatg ccttctgcca tttcaattcc cgtggggagc 240

catgttctgg gcctgggcgc aacaagtatt gaagaaacaa ctgccactat gataactcag 300

gctcctgcag tttcaaaatc agaacgaaga aaacttccaa gaggcagtca acaaggtatt 360

cagtttgaga gttcagcatc aaaaacaaag atggtatcag ctgtggaacc agcacctgca 420

aatgttgaat gc 432

<210> 39580
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-E11

<400> 39580

gattccgnga acgatttaca ccctttcaag ctctgcgacc aggtcgcana tgctggtctg 60

gacgcttgcc ttgctgagga ccctgacagc aaggttgctt gcgagacctg caccaagacc 120

aacatggtca tggtctttgg tgagatcacc accaaggcca atgtcgacta cgagaagatt 180

gtcagggaga catgccgcaa cattggtttc gtgtcgaacg atgtcgggct tgacgctgac 240

cactgcaagg tgcttgtgaa cattgagcag cagtcccctg atattgctca gggtgtgcac 300

ggccacttca ccaagcgccc cgaggagatt ggagctggtg accaggggca catgtttggg 360

tatgcgactg actagacccc tgagctgatg cccctcaacc atg 403

<210> 39581
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-A4

<400> 39581

aagcaagcag atctaatctc caggcagctt cgcgacagag tgagtgagta gcacgacagg 60

gacaatggct tccctgaagg ccgcgaatcc cagcggagtt gcggcgcagg gcaaggagcc 120

ggcgcccaag ctcagcgaga cggcgacgaa gccgtcagcc gcgaagagcg gcggcgttaa 180

gaaggctgag cagaagcccc gggaaaccaa aaggaaggtg aagagcagca aaccggcggc 240

ggcggccaaa aagtgacgta cagtacagta cgtgtggagt gtaatggagc ttcccatgca 300

tgagtgaatc catgccatgt tatgaatcta gtccttcctt tcttgtatct tccatgtgac 360

gcggcgtgtg cgtcccctca tgtgtgatga tgccagatga atacta 406

<210> 39582
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-B9

<400> 39582

cttagaaaaa agactcacca tcgattcatt ttcccttccc gatagttctg aatcgatagg 60

gtcattctcg agagcagggg gacgcgccca ccgcgatggc tcgaaccaag caccatgccg 120

tgaggaacac agtgtataat cccatgatta atctccattt cgatcgctca tgtggtgcga 180

gtacctcctc gactccggtg agcgcgtgcg tgcagacatc agttccctcc ttttgccttt 240

cttgagggct gctcttactt gcttgcatgc tgtttgatgg tatgcaagaa atggctgctt 300

ggacc 305

<210> 39583
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-D4

<400> 39583

tactacgcca aggtgcttga caaggtcttt ccccgtgcga tggaggtcct cgcgggcgtg 60

gtgcataact gcaatctggg gcaggcccgc attgaacgtg agcgcgaagt gatcctacga 120

gagatggaag aggttgaggg acagtctgaa gaagttatat ttgatcatct ccatgcaact 180

gcattccaat atacatccct tggcagacca atcttgggtt ctgcagataa cgtcaagtca 240

atcaccaaag aagacctcga gaactacatt gcaactcatt atacagcttc taaaatggtt 300

atcac 305

<210> 39584
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E6

<400> 39584

tttcttatta ttgtttttttc ttttttttat ttcttacccc ggatttttta acgggggtgg 60

ggcgcccgga ggaaaaacct gaaacttttt ttccctcttt ataataagaa cttaccgact 120

gcttccatac catctgatag gaaaaaccat caacctttgc tgtataaacc aacacttgat 180

accaaaaaat ttcaagaacc aacccttctt tatcagggtg ccaaacaagt tcccaaccag 240

aaaacaaaac gggagatctt cttcaatttt taagaacctt atatttttcc acattcccgg 300

ggccttccca aaggcctgcc catgggtgaa cccc 334

<210> 39585
<211> 86
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G8

<400> 39585

cccacgcgtc cgactgaaac gagttattta tgatcttaag gctgcataca gcatgagagt 60

ctattttaaa cggcggaggg gcccac 86

<210> 39586
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A1

<400> 39586

tctactcctt ctccgactcg tgcgctgtca ggatatcaag gacgcattct actaattggc 60

cagtattctt ggtcttctct gcgaatggga ctgggcactc ctgtggcatg gctgagatgg 120

ctgctcctgt tgactatcac aaggacatgg acttctggtg tcaggataaa cggaccggct 180

gcttacctgt gagatggcac actgttaaag atataccgac tggtttttg cagcatatca 240

cactgcagaa taatgaaaac aagcctgtga ctcacagcag agatacacag gaaataccat 300

acctgcctgg aatatctgtg atcaagatct tcatagacct cagagtgagg gactgcctgt 360

ctgatgatgt tatgacatat gaggcagaac aggcgcaaat gaagccgcac ag 412

<210> 39587
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E6

<400> 39587

cccacgcgtc cgtacgtgcc ttatccttca ggtatgtctc atgttgactt tgcttttgga 60

atggtactgt tggcttcatt gctggaatgc tggttataat caacctttac tgctctatat 120

tggtcttttt ttggtttgca caaccagggt ggttggtttt ctgaatcaat caatccattt 180

cctcggacac aagataattt ttgtatgtta cacttcccaa aattgcaatt aattcagaag 240

tctgcctact ttcattcagt tagttctcag caacactgaa aggatatgaa tcagtcaacc 300

cgatagatgt ttatctggtt attccaaaca atctgacatc acatctgttt ctgcaggcga 360

gataaggaaa atctgaaatg ctatcaccat ttaaaacatt ggctcctgga agttcaggag 420

tcgttcttaa ac 432

<210> 39588
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F8

<400> 39588

ctgtttgttc ataggcttgt ggtattcttt tgataccata tctgatatat tgcacccgtc 60

cattttgcag catttcaaat ttagcaaaat cttaacctgc agtggacttg caagttgcac 120

ataactatca tcgcatcggc atgccagggt gtatttcatg ttgataaccg gggaatgaga 180

agacaacgat agtgtagagc tggtaaccat cacctagttt tttcttcttt ggtttacatg 240

tataattatg cctcctgaca ccttttttggg tttcagtgta tcatatacca gtgtacaggt 300

tcggacctga acattaattt aattgatagt ggtcttgtat gttt 344

<210> 39589
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A1

<400> 39589

gaaataaggt aagaaggtta taggttcggt atcaagaaca aaacatcaag tacaagacca 60

agtttgtaac tagatcttcc agaatgtgca aatgagtgtc aacttcctcg tgtcgctctt 120

gaaaaagaat tggcataatg tgacatgctt gtacctgaag agcactatgg gaaaggtgta 180

ccggctgttc taaattttcc aattaggctt agaattctca ggagactcta atgcttggac 240

acttgccatt tttcctaaca ttcatttttt tgatccac 278

<210> 39590
<211> 108
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A4

<400> 39590

tgatatgtac atctggaaaa cggaccgact atacaagctc cctgaattct ggcattgtgc 60

gtggaagaaa aaaaaactaa aaacggcgaa caacaccaaa actacctt 108

<210> 39591
<211> 83
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H1

<400> 39591

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aagagagaaa aaaaaaaaaa aaa 83

<210> 39592
<211> 94
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B6

<400> 39592

aaaaagaaaa aaaaaaaaaa aaaaaataaa tttataaaaa aaaaaaaaaa aaaaaaaagg 60

gtgagaaaat ttaaaaaaaa aagaaagagc acaa 94

<210> 39593
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D8

<400> 39593

gaacaagata tggtgactgg tgccatcttt cgatttcaca gttatcatgc tggaagcagg 60

ggagttgtct tgtcttccct cgtgcaacca tatgtttgat cgtggtccca aaaagaaaag 120

aaaagatggc tcgatggttt atcccgcatc tgccgattca agcgactact ttagctatca 180

aaagcaaaac cacggtagta gagatagcct tggaactgca catttctatt aactggacat 240

gtataaatag ttctcgtgag cgcacaccat gtaatcgtcg aaattcatcc atgtgttgtg 300

acatttttg agcacagttg aacatgtggt ggagcctgga agcaagtcaa aataaaaaaa 360

atgtctgata atgctataag ataataactg ttaattaa 398

<210> 39594
<211> 57
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-E10

<400> 39594

gaancccggg cgacccacgc tccgaaaaaa aaaaaaaaaa ataaaaaaaa ttattta 57

<210> 39595
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F3

<400> 39595

tcgccacgcg tccgcccacg cgtccgccca ctcttacgtc cacgcgtccg tgctcatgtc 60

ttggctccgc gtttggaatt tgcgttttca atccggtatt gaaggtataa taattaacaa 120

ctagtacggc ggcaacaaaa aaaagaaaag gacaaacctt gaaacc 166

<210> 39596
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F5

<400> 39596

tactggtcga ataatcaaag gacaggatgt atctcttccc aagagcaaat atgaagagga 60

ggtgttcatt aataatcaca cgagcgtgtg gggttcatgg tggaaagatc atcaatgggg 120

ctacaagtgc tgcaagcaga ctatcaagaa tagttactgt actggcttgg ctggaataga 180

agctgccgaa gcatcagcag atctaatgaa ggccaatatg gctcgcaagg aggctgcaga 240

agatgagcct gtacagcatg aagagaagcg attagccact tggggaaccg atgtgcctca 300

ggatcttatt cttaacgaga agaagctcca ggaatctcta aagaaagaaa ctgcgaagag 360

gaaagaagag aaagatgaaa ggaagaggaa gtataacgtg aagtttaacg a 411

<210> 39597
<211> 136
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-G12

<400> 39597

agcatgagtg tncggtggta gnttctgtgt cctttgtaaa aacttgggnn atagttgatc 60

gcgtgtgagc aggccgtcat gcctcctcca gtctnctatg aacaagncta agctataata 120

gtatttntgc tatcct 136

<210> 39598
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G7

<400> 39598

cccacgcgtc cgcccacgcg tccgcccacg cttccgccca cgcgtccgct cccagctgct 60

caaactgtaa gtggtgggcc accatcatat atttgtcgac tcagtggaaa gagcgatgtg 120

gattggtctt tctggttgga ggcaaactct tctgaaagtc tgagagtcga tgtcgcagta 180

cttgatcagt accttgttga tagtacaaag aaactcaaga gcctcttccc aagttgggcc 240

gggctgtttg tataaatatg gaatgcaagg tgccctttgt tgggtctgcc ggaaattatc 300

cagaaaaaaa aaaaaaaaaa aaaaaactaa tataaaaaaa aaaaaaaaaa agtaacaaaa 360

ataaataaa 369

<210> 39599
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G8

<400> 39599

cgcgcctttg cgcactggca cgtctctgat ggtatggagg agggcgagtt ctcccgtgcg 60

cgtgatgatc tggctgcgct cgataaggac tacgacgagg tcggtgctga atctgactag 120

ggtgaggact gcgactaggg tgacgagcac tagacgctct actggcgcag cgtcgactgg 180

cttgtgtgcc actgctatac tgtgatctga cctgagtggc tcctatcgtg ttatgtttct 240

gtcggttctt atctatctgt cgttctgtgg gctacaactt acgttgtacg actttattcc 300

accgctatgc tactgggtta ttaagttttg gcgttatcgc ttt 343

<210> 39600
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-H6

<400> 39600

tcggctccca agcttactcc ctccatctct tctgccgtgc tctgccccag catcgggcgg 60

gcatctccct gagctccggc gcgcgcgttc cttcctgttg cgcctctctc cgtcgaagct 120

ccctgctgct cgccatggca tcttacagtc tctcgctcgg cccctgctcc tgtctttgct 180

tggcgtacgg cctcagtagc tcgccctccc cgtccagcag caagcagctg ctttcccctc 240

gccatgaacg ccgtcgatcc cctgctgcag ttcctacaca tggtctggtc gtcgaccgct 300

cgcgtcacct gctcgtggnt atgtgaaacc agcgagcctg ttctcacggc gtagcttcct 360

cgcgacatcg ttcagcccgt ggaggtacgt caattgatca cgtgatgtgg aagacaagga 420

tcggattgat cttcagataa tgc 443

<210> 39601
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H7

<400> 39601

catggctccg atcaaaagaa ctacactaat tcgtgcggtt catccatgcc ctgcaagggc 60

gtaggaggaa gcctcaccat cgtcccaata cctgacctgc tttcatcatg gctctggatg 120

ttcggagcgg ccatagctgc agcagtgcct ctttacagaa ggttcagagc attagaagat 180

aacgtagaga agacggcgga agcggcgatc gaagtgatcg actcggtggc ggaggcgacc 240

gagaaggtcg ccgacgaggt tgcgcaagcg ttccccggca gtgaaactct caagcaggca 300

gcctccaaga ttaagacgat cgcggatgag atcgaagaat atgccgacaa agctgatgcc 360

ctgattgaaa aggttgacga gaataagaaa gaggtggatt caatcgtcga ccctatac 418

<210> 39602
<211> 214
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-G11

<400> 39602

gggtgaaaaa catacggact tctagtatat gagaagagga atcctaatcg tagtaatgat 60

atcttagtag atatgtgctt actctcttgt taatttttg tcttgagagg actatatata 120

ctgataaagt gataatttat tcagagaata aaaaatgggc tccatgcttt gtctaaaana 180

aaaaaaaaaa cangctaaaa aaactaaata aaaa 214

<210> 39603
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H9

<400> 39603

cccacgcgtc cgtgaagttc cggaatgcag tggctaagga ctactacttc cagatgtact 60

atgatgatct cccactgtgg ggcttcatcg gtaaagttga gaagggcggc aaggatgatc 120

cgagcgagtg gaaatactat ctgtacaggc acatcatctt cgacatccta tacaacaacg 180

accgggtgat cgaaatcaat gtgcacactg atcagagtgc attggttgac ctgacagatg 240

ataaggagac caatgtggaa ttcctgtact cagccaagtg gaaggagaca ccaacaccat 300

tcgagaagag gatggagaag tacttcagct ccttcaacat gccacaccac ctggaggttc 360

attggttctc aattattaac 380

<210> 39604

<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-G10

<400> 39604

gtacaatggc tggttgagcc ccaggatcct gggtgatttc acagctttcg ccgacttctg 60

cttcaagacg tacggcgacc gggtgaagaa ctggttcacc atcaacgagc cgaggatgat 120

ggcccagcat ggctacggcg acggcttctt ccccccccgcc agatgcaccg gctgccagtt 180

cggcggcaac tccgccaccg agccgtacat cgccggccac cacctcctcc tcgcgcacgc 240

tgccgctgtc aagctgtacc gcagcaagta caaggttcgt caggccggca agatcggcat 300

cctgctggac ttcgtgtggt acgagccgct gaccaagtcc gtggaggacg agtacgcggc 360

gcaccgggct cggat 375

<210> 39605
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-G11

<400> 39605

gcgagatgga taagctccgg ctggtcgccc tccccaacct tatcagtgtg cggccggagt 60

gatacgaccg ccagcgctcc cacagcgacc tgtaactgtg gagcaagtgg cgcctggcta 120

gagcaggccg ccttgtacat acttttgcaa aaacgaggtg tctgtacata ttgttcgtcg 180

tgtcgtgtcg tgtcagagtg cctgatggca acgggctaat acgttcgtgc caacgtgtgc 240

atggtatccc acggaccctg tggtagtaag gagcagttgt aaatatgccg tgcttcctct 300

ccatgtggag tgctgctgta taaatagatt ggtgcattgc taaatacctc tgcttggaaa 360

aaaaaattta atataaaaag ggcg 384

<210> 39606
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-G3

JC675 U.S. PTO 09/394745 09/15/99

09394745.090599

<400> 39606

ccagatatct atctttgtgg tcgtggtcct cccgtcgtcg tcgactcgtc gtcgtcggtg 60

ttgctccgat gggcaaggac tcgaagccga aggacgccaa ggggaagggc aagcaggcgg 120

ccggctcctc tggcggcgac gacggcggcg gcaagggagg caagggcaag ggcaagggca 180

agggcggcaa gtccgctgac ggactcggca cttgcaccta cgtcaaagct aggcacgtat 240

tgtgtgagaa gcaggggaag atcaatgaag cttataagaa gttgcaggat ggatggctga 300

ataatgggga caaagttcct cctgctgagt ttgctaaggt agcacaagag tattctgaat 360

gcccatcatg gaagaaaggt ggagatcttg gttggttccc gcgtggcaag atggctggt 419

<210> 39607
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-G4

<400> 39607

aagtcagtaa agtaaattct gtcgctccaa ttcggacgag gagatgccgc ggatccctct 60

gatcaggttc cccaagcgga atctcaaagc cccatctcca tccgcgccag cggcgtcgca 120

acccgcagac cagcacgcga ccctcatgtt ccggttaggg gctaaagcag aggcaccatc 180

ttctggagag attaaaaatt accgctttag atctgatgtg ccttgcccac cttctcatac 240

tgccgtagga ggtccagctt cactccttcc taagcgcaaa cccctgactg aagaagagat 300

tgaggctatt atgctggggg gatccatctg atatcacctc atatgaattg gaaattctag 360

gaacatcaat aagattgtat gcctgagctt attgcctttg acctctgaaa gagtgttatc 420

gaagccatgt cgatatgtaa gtgggttttt t 451

<210> 39608
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-G6

<400> 39608

cggactcgtg gggggtacaa caatggcgtg ccgatagacg aggagttctt catcaagaac 60

atcgctggga ggagtgacgt cgaagctgcc cagaacctgt tcccggactg ggagcttgag 120

aaggggctca aattcctaga ggacaaggaa gcaaaataca ggagtctggc aaaagagcgc 180

ttggtgcctg tgaaaggcct cgcgaaggtg gtccagtggg tgaaagacca ctggtacaag 240

cgcgcggcgg tgaccaacgc ccccaggatc aacgcggagc tgatgatctc gctcctgggc 300

ctctcggact tcttccaggc cgtcatcgtc ggaggcgagt gcgagcagcc aaagcccgcg 360

ccgtaccctt atctcatggc cctcaaggag ctccaggtgt ccgcagagca cagcttcgtc 420

ttcgaggatt cg 432

<210> 39609
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-056-Q1-K1-G8

<400> 39609

atccaggaca aggagggcat cccaccggac cagcagcgtt tgatcttcgc tggcaagcag 60

ctggaggatg gccgcaccct tgcggattac aacatccaga aggagagcac cctccacctg 120

gtgctccgtc tcaggggtgg catgcagatc tttgtgaaga cactcactgg caagacaatc 180

acccttgagg tggagtcttc ggataccatt gacaatgtca aggccaagat ccaggacaag 240

gagggcatcc caccggacca gcagcgcctc atcttcgccg gcaagcagct ggaggatggc 300

cgcaccctgg cggactacaa catccagaag gagagcaccc tncacctggt gctccgcctc 360

atgggtggca tgcagatttt tgtgaagaca ttgactggca agaccatcac cttggaggtg 420

gagagctctg acaccattga caatgt 446

<210> 39610
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H10

<400> 39610

cctatcccga ccccctgccg ctccttgtct actccaacgc cttcttcacc tgccctgcgt 60

acttccgctt catccacgag gaccttcacc catggcgcgc cgttgtgggc tttacccgct 120

ccatgttcta tcgttctcgc gctcattaca acttcctgct tttctgtcat ttgtgtcctt 180

tcttattatt gtgcattttt gttttctttt tttttgtttt acttttccca ttgttgttat 240

ttttatattt tttttttatt ttgttgtttt tcttttttt ttattttatt tttatatttt 300

ttttatgttt tttttttat ttgttttctt tcttttt 338

<210> 39611
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H3

<400> 39611

aaaatttgcg tttctgttgg gtacacagtg gtgtagaagg agggccagtc tcatatctgt 60

ctgctcgttc cagtaattaa gtcaagataa atgccaataa acaagttaag aaaaatgcca 120

tcatggagga catagttgtc caagagttac ttgatgattt ctaggacact ccttgggcta 180

gagctagcta taaagttaag cttgatgatt ttgattctga ttttgagtct gccctactaa 240

aacaagaatc atgacctaca tttcatttaa ttcctgcatg cagacccatg atgttgtatt 300

aactattcca gtgtgcaatt catcatgttt cttatatctc cattctactg ctttaatgat 360

atgtctagca tgtgtaatat tcctaatcat ggttcatctc gaatcgattg catacaaaat 420

gattatgtac gtatga 436

<210> 39612
<211> 85
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H4

<400> 39612

cggactcgtg gggggaaata ccttctaagt gtttattttt atttttact tatttcacgt 60

caatcaatgg aaaattatgc ttccg 85

<210> 39613
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H7

<400> 39613

gatcctcaac aacgaggagt gcttcatcct gaagctggag gctggcgcct cgacgctgcg 60

ggctcggagc gctggggcgt tcgacatcat ccaccacacg gtttggggct acttcagcca 120

gcgcacgggg ctgctcatcc agctcgaaga ctcgcacctg ctccgcatga agtccggcaa 180

gggcgctcgc cgcatcgaga acatcttctg ggagaccagc atggagtccg tcatctccga 240

ctaccgctac atcgacggca tcaacatcgc gcacggcggc cacaccaacg tcacgctctt 300

ccgctacggc gagggatccg tctaccacaa gcggaagctg gaagagacat ggactgttga 360

tgaggccgat ttcaacgtgc acggtctaac cacggactac t 401

<210> 39614
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-056-Q1-K1-H8

<400> 39614

attggtaggc ctcttgaaag tccgggtggt gaggggcatc aaccttgcct accgcgacgc 60

atgaggcagc gatccgtatg tcgtcctacg acttggcaag aagaaactta agacgagcgt 120

gaagaagaga tctgtgaacc ccatctggca cgaggagcta actctgaccg tcacagatcc 180

cagcctagct ctgaagctgg aggtgttcga caaggacacg ttcagcaggg acgacccgat 240

gggggacgcg gagatcgacg tggcgccgct ggtggaggcg gcgaacgcga gcccggaggc 300

gagcctgagg aacggcgcca tcatcctgtc ggtgcggccg agcgccacga actgcctcgc 360

cgacgagagc cacgtgtgct ggaggaacgg caagttcgcg catgacatga tcctncggct 420

catgaacgtg gagagcggtg agattcatc 449

<210> 39615
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E3

<400> 39615

aaagagacaa aacctcgttt tttcttgacc catgcttggc taaaaaaaga aaccaagaaa 60

cgccatgtct gatccccccg gcgagacgga ccataaccat cgcgatggaa agcaccggcg 120

atcgcacctc caccacctga atgtgcaggt ccctcccgtc gccagcaaca ttggctgctt 180

cgccggctgc ttccgcccgt ccccgacatc atcgtcttcc cccgccgcgc acggcaccaa 240

ctgccacgga cacggacacg gacacggaca ccggcacgcg gaccggccgg cgttcccgtc 300

tctgatccgg tcgccgtcgg cgtggatcaa agcgaatggc cagagcctcg ggtctggcag 360

gcacgcgcgc cgtcggtccc aggacttcca gtacgacgcc cttagctacg cgcgtaactt 420

cgacgagggc tggagc 436

<210> 39616
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E4

<400> 39616

cttccgttac ctctccaggc agctcctctc cctctctgtc gccgacgact acgccaggtc 60

ttcttcgggg cccaggtcgc tgccgcctac atcaggggcc ccaagttttc ctacttccta 120

ggacccctcg ccggcgacga gcaccaccag cttggttcac tcccaacaaa atgtcagcca 180

atgtgggtga atcaactagc ggtgtcagca gcagcgatgc agctgggggg agctttgagt 240

gcaacatatg cttcgagctg cctcaggagc caatagtgac tctctgtggc cacctcttct 300

gctggccgtg cctttaccgg tggctgcaca ttcacgcaca ctcgccagag tgcccagtgt 360

gcaaggccct cgtggaggag gacaagctcg tcccccttta tgggcgtggc aaggatcgcg 420

tttacccgag gtcgaagaac atg 443

<210> 39617
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E5

<400> 39617

ctgtttttat gttaattgta ttttgcctgc gatcatgcaa tgtattttct tttctgaaat 60

agctttggtt attacagaac tttttggtag acttaaaggg tcctaatttg gcctttctac 120

cattactttc atttgaaggc ggttcattgg agaaacatac ccaagttcaa gattggtaca 180

ttaatatatg ctcgagtggt gaaagctaat agtatcatga atcccgagct ctcatgcatg 240

gatggtacgt cttttagtct tcagctcaat gttcatgctc cttacttgat catgataact 300

tcagaagtat ggcttaccaa attttattcg tcttatcata tttatcctta ttacctgtgc 360

taacctgtga gcttg 375

<210> 39618
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-056-Q1-K1-E6

<400> 39618

ggagcaggtt atattggcct tgagatgggt tcagtctgga accgccttgg ttcagaggtc 60

actgttgttg aatttgcccc ggatatagta ccatcaatgg atggcgaggt caggaagcag 120

ttccaacgca tgctagaaaa acagaaattc aagttcatgc tcaagacaaa ggttgttggg 180

tgtgatacca gtggagatgg cgtaaagctg acactggagc ctgcagctgg tggtcagcag 240

accatccttg aagcagatgt tgttcttgtc tctgctggca gaagcccatt tacttctggg 300

attgggcttg aaactcttgg tgttgagaca gacaaggctg gcaggatcct tgttgataag 360

cgcttcatga ccaatgtgaa gggagtctat gcaatcggtg atgccatccc tggtccccat 420

gctgcccata nagctgaaa 439

<210> 39619
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F1

<400> 39619

cccactcgtc cgcagcagta cttctcaaat accatatctc ggctcttgct acctgttgat 60

ggtgctcatc cgtctgcttg tgaagatatg gggtcagcag tatcagtagt tgaggctgct 120

gctcacaaag gactgctaca atgtattgat actgttatgt ctgaggttga aagattgttg 180

tcttcagaac agaaggctac agattatcga acaccagatg atggagctgc accagatcat 240

cggccaacta atgcttgtat aagaattgta gcctatctct ctcgtgttct tgaggttgca 300

ttcagtgccc ttgaaggcct caacaaacag tccttttga ctgagctggg aaatcgcttg 360

cataaggggc tgcttaatca ttggcagaag ttcacattta gtcccagtgg tggcctacgg 420

ttgaaacgtg acataactga atat 444

<210> 39620
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F3

<400> 39620

cggactcgtg ggcgagtggc cgaacgagtt ccagaggctg tacgggacca ttgacctgta 60

ctggatcgtg agggacgggg gcctgatgct tctgctgtct cagctcctgc tcgccagaga 120

cggcttcgag agctgcaaga tccaggtgtt ctgcatcgcg gaagagggca cggaagccga 180

ggagctgaag gctgacgtca agaagttcct gtatgatctg aggatgcgag ctgaggtcat 240

cgttgtgacc atgaagtcga tggaagcgca ctctgagatc agccccaacg ctaagaagga 300

tccccaggag gagtacgcga gcgcccagga tagaatcaga gcgtacctgt cgcagatgaa 360

ggaggatgcg cagagggaag gtcggccatt gatggatgat ggcaggcagg tcgtggtcaa 420

cgaagagaag gtcgagaagt tcctct 446

<210> 39621
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F5

<400> 39621

gcaccatgtc ctcctggagg gtaccctcct gaagcccaac atggtgactc ctggctccga 60

ctctaagaag gtgacacctg acgtgatcgc ccagtacacc gtccgtaccc tccagaggac 120

cgtgcctgct gctgtgcctg ctgttgtctt actctgcggt ggtcagatcg aggaggaggc 180

caccctgaat ctgaatgcca tgaacaagct catcaccaag aagccatggt ccctgtcctt 240

ctccttcggc cgtgccctcc aggcgagcac cctcaaggcc tgagctggca aggtggagaa 300

cgtggagaag gctagagcgg ccttactcgc caggtgcaag gccaactccg aggctacatt 360

ctgcacctac aacggtgatg ctggcgtcga caccgatagc cttcacgtca aggactacaa 420

gtactgaatt gcttctc 437

<210> 39622
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F7

<400> 39622

ggatgtcgtg gcagacatac gtcgatgagc acctgatgtg cgagatcgag ggggaccagc 60

tgacctgcgc tggcgtagtg ggccacgacg gctccgtttg ggcccagagc accgcattcc 120

cacagttcaa gacagaggag atgaccaaca tcatgaagga cttcgacgag cccgggttcc 180

ttgccccgac cggcctcttc ctcggcccca ccaagtacat ggtcatccaa ggcgagccct 240

gcgctgtcat ccgcgggaag aagggatctg gaggcataac tgtgaagaag acagggcatg 300

cgatggtggt cggcatctac gacgagccca tgacccccgg tcagtgctac atggtggtcg 360

agaggcctcg ggactacctt gtagagcaag ggccgtgaat ggatttaatt aacctcgctc 420

gcttgtgcat ggt 433

<210> 39623
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F9

<400> 39623

aaacaaggag agtctgtacc agatatgtta ttcatgtctt gagtcactgg ttgatctctt 60

tgaagaggcc agagaaccaa cagattatac aggtcagatt cttgtagtta gagggagtaa 120

accactgatt gagcgagtct ctaggcaaac agagaacctc agttggctct tggatattct 180

agtaaacaat gacattgcag aagaatttgt agaactgtgg gcgaagcaag acaggctcat 240

taggatgcac gagcaagcgt cagcgatggt caggtatgag ctaagccgaa tatcagccgc 300

tgtgttcatt gcacttggta aaggaaaagt tcagtgtcgt ggcgatgtac gaagcctcgt 360

ctttcgtgga tggttcagca cgatgttggt gggatttggc tggctt 406

<210> 39624
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E12

<400> 39624

cccttccctc cctcacacga tctctcctcg acggctaacc cggattgccg tctcaggctc 60

gggatccggg cgctcgcggc gatggacggc ggcggcggcg gcgctggcgg cgcggagggg 120

gagctcacgg cgcaggagac agcgctctac gaccgccaga tccgcgtctg gggcgtcgat 180

gcccagaaga gactaagtaa ggcgcacgtg cttgtgtgtg gcatgaacgg aaccaccatc 240

gagttctgca agaatattgg tctagctgga gttggaagtt tatccttgat ggatgataat 300

gtagtcacag aggaggatct gaatgcaaat ttcctaattc ctcctgatga gagcatata 359

<210> 39625
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-C12

<400> 39625

caacggcatg ccgttctgga acaggcggcg caacggcgac ggcggcggcg accagctcgt 60

tgtcgccttc gagacgtacc agcagctgag ccgcgtgtct atccgggcca tgacggccat 120

ctccgacctg gaaacgatcc acgaggacgt cgtcaccagc gcgcaccaga agcgagccgc 180

gctcatcgtg ctccccttcc acaagctcca ccagatcgac ggccacatgg agtcgcttgg 240

cgaccagtac cagcacatca accagcgcgt gctccaccac gctccctgct ccgtaggcat 300

cctcgtcgac cgcggcctcg gcggtgtcgc tcaggtggcc gtcagcgacg tgtcatacac 360

catcgttgtc atcttcttcg gtggccgcga cgaccgcgag gccct 405

<210> 39626
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-C2

<400> 39626

gctttatcca gtggatcacc aatccgatca gaagtggagc tattgcgtaa atctgttgaa 60

ggcatcgaca aagattcact gttagaactg gctctttcat cactcccaga agatgtttta 120

gattatggat cagataccat gatggggttg aagcaaaagt ttaactcctt gaaggaaact 180

atcagacact tcagccttct accagcaggc ggtggtggaa tcctggcaca tactgttgct 240

cgagttgctt cttcaatcaa gattaaaggc gataactctg gagatggcat tgagtctctt 300

atcaacaaag tagaaaggtt gattgtggat ggagacttga ttacagcggc cgatgccttg 360

gagcaagggt tacatggaac tgaagcagag gagatagcta ccg 403

<210> 39627
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-C3

<400> 39627

tcggtcaaag ttcctttgtt tctttcttga tttgtgcttg cgttgggttc ggtgttcgat 60

cggcgcattt gccgcatggg cgtggctgtc aaagttcctt agcatctttc ttagatatgt 120

gcttgcgatg ggttcggtgc tccactttct ttttatgtga ttattaatct cgttttcaga 180

tgcatgtaca catgtatgtg cctgcaccat ttggtcttgt gaaaacttga tcattgtatt 240

ccaatctcta gtgtagcaac ct 262

<210> 39628
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-056-Q1-K1-C5

<400> 39628

ggcgtcggag ggccagtcga cctctctgct cgcgaaaaat ggcggcggca gcggaaggtt 60

tggctgccta cagggcggtg ctgcgggcgg cgcggcggac gttcgcgggc gaccagctga 120

tgctgaagga gtctgcggtg gagatccggc gccgctttga ggaccaccgt ggtctaaccc 180

cgggctccga cgatgcagcg cgtgccctcg ccgacgcccg cgaggcggcg cacttcatca 240

cccatatgat agtccaggcc acacgcgcac cctccggatc cttcgttgtg aagcctgaga 300

gtgttcatgc tggagctaca ctggaagttc cttccgagga gatcctttca aagttgaagt 360

angtcactag cattgctgaa gtaggtcacc atcttcatgc tagtaaaata agaccatgtt 420

gcaacgggtg attc 434

<210> 39629
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-C6

<400> 39629

tcaaggcgta cgaggactcc gccttcgtgc tcaccgtctc caagatccac tacgagaata 60

tcaagatgga ggactcagcc aaccccatct tcatcgacat gaagtactgc cccaacaagt 120

tgtgtactgc caacggcgcc tccaaggtca ccgtcaagga tgtcaccttc aagaacatca 180

ccggcacctt cttcaccccg gaggccgtta gcctgctctg cactgccaag gtcccatgca 240

ccggcgtcac catggatgac gtcaacgtcg agtatagcgg caccaacaac aagaccatgg 300

ctatattcac gaacgccaag ggcagcacca aaggttgcct caaggagctt gcatgccttt 360

agaccc 366

<210> 39630
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-C9

<400> 39630

ggggaggcaa agccgcgtag tgctggacgt cggctgcggc gtggccagct tcggcgggta 60

cctgttcgac cgcgacgcgc ttaccatgtc cctggcgccc aaggacgagc acgaggcgca 120

ggtgcagttc gcgctggagc gcggcatccc ggccatcttc gccgtgatgg gcacccagcg 180

cctaccgttc gtcgccaacg tctttgacgt cgtgcactgc gcgcgctgtc gcgtaccgtg 240

gcacatctac tgctgcatgc tcctcctcga gct 273

<210> 39631
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D1

<400> 39631

catattccta agctatcatg gtgcaccggt cttccatagc cgatgtgcat gtgatgcgca 60

tggatctaag cccaaagaaa cccatcatgg ccagctccag cgactgcgga gcctactact 120

actggtccca cgccgatctg cccatgctcg gcgttgcctt catgggtgcc gacaagctct 180

gcctcaccgt cagatgtctt gccctaccca gctacttcga ctctgccaag atcgtatacg 240

taatgcatgg ctt 253

<210> 39632
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D10

<400> 39632

cggacgcgtg ggtgtgaatc tacatggatc agccaaaaat ttaccagctt catgtgcctg 60

aaagccaaag cattcacctg agctgtggat gttcccacag catgtcgtgc cgactatgcg 120

cacaccattg tgcatactta atgcatccta cgattcgtgg caagccaaga acgttctaac 180

acctagttca gttgatccga ataagacttg ggcccaattg caagcttgac at 232

<210> 39633
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D12

<400> 39633

ggtgaggaag aaagttagat cccgccatta ccgtgagagg ggtgagcgca tccgaagtcg 60

ctccttggct ctaccgatgt ttggtggctt tgggtgatcg ccggagggcc tggatcgtgt 120

tcgagagtgg ctgggcgcgg gagctctcta ggctggagca attgctcgac ggagcaattc 180

cgtcgccgca gacccgtctc taaccgtggt tgagcttctg cgcgcacagt tcacggtact 240

tgatacatgt tgggaattag gggggtagca gcacgttcac tttcactttt acaattacgc 300

tgcccaggcg catccatgat tttaatttga aacctattgt caaaggaaag tttggttatt 360

ttttt 365

<210> 39634
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D2

<400> 39634

ctagcctagt ggttgaggac ttccgagtaa cacctccaag tcctgggttc gatcccccct 60

cgggagcgaa ttttcaggct tggttaaaaa aaatcccctc attgtgctcc atccgctctc 120

gggttacgat gtcttgtgcg ccacccttcg gttgggccgt tgcagagtgg acagttgaca 180

ccggcccgtt agtgatgggg ggcagggttc ggggattttc tcggtcggaa ccattgtttc 240

ggtctcttct taatataata ctgggaggac ggtctttccc tccccggccg agttttttt 300

<210> 39635
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D3

<400> 39635

gaaccagcag ctcttcaata agagccagcc agagaaacta gtaaaactct cgacgccggc 60

atccgagcga acatgccaac cgaccgcgtc cccaaggcaa tccgtcgccg acgtaccacc 120

accaccgcaa gagcgagatg gagatgaaga ggatcctctt cgccgtcctc gtcgtcatcg 180

ccgcctcggc caccgcagtg ctggccttca ccgaggccgt cgtcgcgggc gccccaactg 240

cctccgagtc gtccgcctag gctcccgctg 270

<210> 39636
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D9

<400> 39636

cggacgcgtg ggcatataaa caagcgcaca ctaacaaata tcctttcgcc aataaggggc 60

gatagatcct tgattgggct cgctacggca atgcttgcta ctagtacccg tgg 113

<210> 39637
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-056-Q1-K1-E1

<400> 39637

acgattcact ggtgtacagt ccacgcagca tcgcgagggc cacaaccacc ggcatccctg 60

tcggcgatca aggcgtggcc gtgctacgtg ggccgcttat cgtgggtgca gggccggcgg 120

gtctggcatg cgcggcgttg ctcaccatgt tatacattcc ctacgtgctc ctagagcgcg 180

acgtgtgcgt agcctcaatg tggcaccgtc gcacgtaccg caggttgtgt ctgcacctac 240

ccaagcgcta ctgtgagctc ccgctcatgc actttccacg cacctacccc acatatccaa 300

cccggcagca gttccttgtc tacctcaatg agtacatgcg cgcatntggc atcctgccat 360

ttttcagcct cgaggttgtc gctgccgagt acaacggtga atactg 406

<210> 39638
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-C11

<400> 39638

gactccgtcc tcccacactc ctcgcccgac ggcgacggcg actgcgtcga cgagaggcaa 60

gcgtctccgg cgggcggaga cacgtgtcgt tcggcgacct gagcctcgcg gagtggacgt 120

cgttcctgga gaggttcgag cagctgctgc cagctgcgct cgaggacacg aagtgcgctg 180

tgctagggac gtcgacgttc gcatcgttct gaccgggcta cgcactggtc aatcactacc 240

gacaccattt gcatgcatac atgcgtgagt gcgtgcgtgc gtggattcaa aataatacac 300

gtgtgcatgg tttcttacta gggaccta 328

<210> 39639
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E10

<400> 39639

cggacgcgtg gggcagtggg agatcgagct cgggtggcat gaggcggacg cccggcacgc 60

ctggattctc aaggacgc 78

<210> 39640
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E11

<400> 39640

gagcagcatt tcgagtaaca cagttgagca cgacgatggg atccctcgct aataacatca 60

tggtcgtggg cgccgtgctt gcggcgcttg tcgtcggcgg gtcgtgcggg cccccgaagg 120

tgccgcccgg cctcaacatt accaccaact acaacggcaa gtggctcacc gccagggcca 180

cctggtacgg tcagcccaac ggtgccggcg ctcctgacaa cggcggtgcg tgcgggatca 240

agaacgtgaa cctgccaccc tacagcggca tgactgcttg cggcaacgtt cccatcttta 300

aagacggcaa gggcttttgc tcatgctacg aggtgtgatg caaggaaaaa 350

<210> 39641
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-056-Q1-K1-A6

<400> 39641

ggctggacta tccgctccag gaggctgaag ttagcatcgg ggcaaccagg tccactcgtc 60

aggtctgcct agggtacgtc gacgacgacg aggacgggga agaggtgcct cagaactacc 120

ggtcgttcgg ggcggtggga aatgtattta gaccaaggat cgggaggcgg aaccgtcgcc 180

agcctcctgg agtgcacgtc ctgcaccctc agacaagacc cggcggctgg atggagatgg 240

agatgggtga gttcaggaac gaggaagctg aagatggcga ggtgtccgtc agcctcatgg 300

agaccagggg cggcaactgg aagagaggtc ttactgtgca tggcattgag atcagggtca 360

agaagtaagg atgtgaaggc tgtggngatc gggctttgcg catcaaaaca tataaaagta 420

tcttagttag atttggt 437

<210> 39642
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A7

<400> 39642

attctgatta tgagacgaaa ccaaccttaa gaaagtactc atcttcttcg aatcaccagg 60

ttaaggtgaa taataaaatc agttctaatg ctaagaggtc atcagctaag ccccctaaga 120

agtcatccaa gaaaacaaac ctctcaagcc agaaacttag agctctctct tccatctcca 180

ctgcaaaaaa ccatcatgga gaaggtggtc aagcgaaggc aaattggcac aatgacatat 240

ttggtggttt aatcggatca gaaggagcag ttcctctagt gacatgtgtc ccaacgaagg 300

ttgtgttcac taggatattg gaagcagttg gaaggccacc tctgtctgcc gctcgccgtg 360

ttagaatggc tagtcctccg gtacgagatc ctccataggc ttcaactgta gtgctacatg 420

cggtttatgt cgccagccat cgacat 446

<210> 39643
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A9

<400> 39643

cttaagaaga cggccaacgg cgtccgcatc aaggcgtatg aggacgccgc ctccgtgctc 60

accgcctcca agatccactg tgagaatatc aagatggagg actcgggcta ccccatcatc 120

atcgacatga agtactgccc caacaagtta tgcaccgcca atggtgcctc caaggtcacc 180

gtcaaggacg tcaccttcaa gaacatcacc ggcacctcct ccaccccgga ggccgtcaac 240

ctgctctgct ctgccaagat cccatgcacc ggcgtcacca tggacgacgt caacatcaag 300

tacagtggca ccaacaacaa gaccatggcc gtatgcaaga acgctaaggg cagcgccaag 360

ggttgcctca aggagctcgc atgcttctag aaccaccatc gacccatctc tctagttata 420

caatgtgttt g 431

<210> 39644
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B10

<400> 39644

actgaaaaca gccgagcgat ctcctctccc tctccctctc cgatccattc tccagcgcag 60

cgaagtaaac atgtctgacc gggcaaagat gtcgtggcag gcgtacgtgg acgagcacct 120

gatgtgcgag atcgagggcc accacctcgc ggcggcggcc atcgtcggcc acgacggtgc 180

cgcctgggcg cagagcacgg cgttccccga gttcaagacc gaggacatgg ccaacatcat 240

gaaggacttc gacgagccag ggcaccttgc gccgacaggc ctgttccttg gacctaccaa 300

gtacatggtc attcaaggcg agcctgg 327

<210> 39645
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B11

<400> 39645

catatattca gacatttcat atcggttgca aacttccatt cttagaatct gtcagacgaa 60

aacttctggc aattgagggc gtgccatatt gtctacataa agatatgcag cttatcaagg 120

cctttaatca tattaaatct acaaattgcc agtctcatat atcaaaacgt attgacatgg 180

ttgtatatgc ttactgaatg gccttttggt gccta 215

<210> 39646
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B3

<400> 39646

cggactcgtg ggcggactcg tgggggatct tgaaaaggct gacatgtggt tggggaacct 60

actgctggaa cacagcgagg atatatacag gatgaaaggt ctgctttctg tcagtggaat 120

gccgcatcga tttgtctttc agggagtcca tgacattttc cagggatctc ctgagagaat 180

gtgggagcca aatgagccgc gcatcaacaa gattgtcttc atcggcagga acctcaataa 240

agaagagctg gataaggggt tcaaggattg cctactgaag aaatagagtg atttcagaat 300

agtcgggata tagatctcca gttttggcct tcttcgaatg tagtcagatt cacatcaatt 360

catatctgtt ggagtggatt gaagacagtg aagcttgaac taaattctac cccaattcat 420

ccgacatatg taga 434

<210> 39647
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B4

<400> 39647

cggactcgtg gggacctgca tcggcttgcc gcgacaacca gaggtcacag gagataattg 60

actgcatccc cggacatctg ccatgggagg taaccccgga cggcgtccag catctcgact 120

gaccaatagg acgtgccggg aagacgatcc tcgatattcg tacacacggt tcctcttgga 180

ataagactca catgcgggac catcattgac aagct 215

<210> 39648
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B5

<400> 39648

cagaagggga aaatgaggca tgggtgacac cgcggcggaa gtgaccgagc cacggcgacc 60

gccggtggga tatcttcggc cactcacggc tgggttcgcg ggatggtgcc acgtccgaag 120

ttatctctcc gtgatcgacc cgcttcacca gatcactcaa gcacatccag ttcaacagtg 180

cctcacatct ttatccgcgt tctgcagata tttacaatgc tttgatgttc agcggtctac 240

tgaaccgacc acctatcatg cgcactttct catgtttctt gttaagaaca gggtagcgct 300

ccttaataaa atttgtctcc caaacaacat tcttcaagtt tgttataggg ttcatggatc 360

aattatgtat agatt 375

<210> 39649
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B6

<400> 39649

cggacgcgtg ggcaacggca agaaggtcat ggccgtccgc atcatgaagc acaccctgga 60

gatcatccac ctgctcactg actccaatcc catccaggtg gtcgtggacg ccattatcaa 120

cagtggacca cgtgaggatg ccacccgtat tggttcagct ggtgttgtga gaaggcaggc 180

tgtggatatc tcacccctga gaagggtgaa ccaggccatc tacctcctca ccactggtgc 240

cagggagagc gctttcagga acatcaaaac cattgctgag tgccttgcag atgagttgat 300

caacgctgcc aagggctctt ccaacagcta cgccatcaag aagaaggacg agattgagcg 360

tgttgccaag gccaaccgtt gagtggagct tgtatcctgg tgcacttgca ctagaactac 420

gtttctggca gtc 433

<210> 39650
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B7

<400> 39650

attacatatg tgtctgccat gtccaagtga cggggcgctc gctctcacca gatttaatga 60

tagacctctc cgatgcctgc tggttactcg aacctcaagt atctgccggg tgccggtaac 120

ttgcgcccag aagacctaat cagcattgac gccaaggact caccggactg gcgctcgctt 180

gtttccaggt acaggcagat gaggcaactg gccatggtgt acatgctgct tggacccgtg 240

cagtttatgg atgaagacga agttgacttg cagatgtaag ctttgttttc cctgaaccgg 300

atcttgtgta tcctaattga acggagcttg ctctgataaa tatagtgaga aaagatatgt 360

gtcgctgctt aaaaaaataa aatttgatac cttatactat 400

<210> 39651
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B8

<400> 39651

cccacgcgtc cggccgaact ccctaaccct aagtccctaa gcgtaggcgg cgggggcgg 60

cggtgcgagg caagctgcac agcaacacgg gccacgggcg cggcctccgc ctccgcctcc 120

acgcttctgc tgctaggctg caagggcggc ggctcggctc ggtgggcggc ggacagctgg 180

ccaggtccag cccagtagtc caggtgacga ggtccgcact ccgcaacggt tctggcgttc 240

tgcagctgag gatagacgag agaggaagtg aggatttata ttagtgattt acaaggcaac 300

ttgaaagaca gcagggttgc atcccacaat gtcagctccc aacagtgata gcaacatgca 360

gcagctagtc cctatagcac caccaggaaa ggcttctggt ggtgacaggg gaaggagctg 420

gttgtggcag at 432

<210> 39652
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B9

<400> 39652

cgtctagcca aaagcatcgt cgtggtgaaa aagggagtcg gggaggtagt gaattaggtc 60

gtcgtcggtg atctccgtcg gtgccagatt ttcgtcctcg gtgtttggct gagaggggtc 120

accatcgtcc gtggaagccg ttcatggctg tggttggagt caagtgccta tgtcgcgggg 180

tgaattgctc accagagcag cggatccgcc catcgtcatg gttggtctgc gccagcgata 240

atcgacatcg acagacaagc aactgaggac ccaggtgctc agtaggtgga aaatactgac 300

catgagctcg ttgaaggtaa attgtgccct tgatcacttc tatttaccca ataatgttcc 360

tgttaatcat tatgacctgc ataggttaat tttgatggta cccaatatgt caccccagtt 420

tggctatcct tttc 434

<210> 39653
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-C10

<400> 39653

gtgacctgcg gccctggcca cgccggtgat gttcaccttg gaggtcccgg ggccgatgga 60

gatgcagccg tcggcgtgac ctgcggccct ggccacggca ttagcatcgg cagcctaggg 120

cggtacaagg acgagaagga cgtcacggac atcaacgtca aggatcgcac tcttaagaag 180

acgatgttcg gcgtccgcat caaggcgtac gaggactccg acttcgtgct caccgttttc 240

aagatccact actagaatat taagatggag gacttatcca accccatctt catcgacatg 300

aat 303

<210> 39654
<211> 152
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G7

<400> 39654

ctggaagggc cctgccaaga actgggagaa cgtgctgctc agcctcgggg tcgacgaccg 60

ctagccaagg gtccgaagcc atgagatcgc gcccgttgcc aaagataacc gtgcccggcc 120

ctgaaaaggt cggcctgcaa ggcccctgat ct 152

<210> 39655
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G8

<400> 39655

tgaacatgca ggtggacgcg ttcgccaagc gcaccgcgca tgcgcgcaag cacgtcgcga 60

ggtcggtccg cacgattccg gcgcagcaga cgcaggcgct cacgttctgc gacaccatgt 120

acatgaacac gcaggacacc atcggcgcgg cgcagcgggc catcacgttc aaggacaccg 180

gcaccgccaa gatcatgctg cagctcgccg tacaggactt cgactcgtgc gaccgtctct 240

tcactcatgc cggcgtcccc aaccccatgg ggaagtttga caaggtgctc aatcagat 298

<210> 39656
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H10

<400> 39656

gagacacgtt cgaagacatt gatcggctac tctggaggtg ccagtgagca agctatgagg 60

tcagccgcca agaagagctc gagaggcaat ggccaccgca cggaaggatc ctaagcaggt 120

tgataaagtc aacctgaaac ccaacgagtc tcacaaaggg gtagtacggc atgcaagagt 180

ctgtgccgac ctctgcggat cgcatatcg 209

<210> 39657
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H11

<400> 39657

gcggcggatc acggaggcga aggaggagga tcagcagcag caggcggcgc cgtggagcgg 60

catcccactc agtgcttgca gccatggcta ggggattgaa gaagcacttg aagaggctca 120

atgcgcccaa gcattggatg ctcgacaagc ttggcggagc ttttgctccc aagccatctt 180

ctggacctca caagttcagg gagtgccttc ctttgatcct catcatcagg aacaggctca 240

agtatgctct gaactaccgt gaggtcattt ctatcctgat gcaacgccat gtacttgttg 300

atgccaaggt caggactgac acgacctacc ctgttgggtt atggatgtca tttccatcct 360

taagacattg gagaactaca ggctgctt 388

<210> 39658
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H12

<400> 39658

gagacacatt tgaaaccatt gataggccat atataacagt ccatatatct atatataatg 60

tcagccgtga caaaggatct ggagtcgatt cgcatgttac agaaggacat taagctgctt 120

cttatactca acgtgaccac caatgaggct cacacaggga gagaacgcga tacaaacact 180

gtgcgaatcc ttgcggcatg catatcgtcc tgaaactgtg ccaacgtcta cacaactgaa 240

ggcttctccg gtcataagtt cacaatctta cgacctc 277

<210> 39659
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-055-Q1-K1-H2

<400> 39659

ccaagaagcg caagaagaag acgtacacca agcccaagaa gatcaagcac aagcacaaga 60

aggtaaagct cgctgtgctg cagttctaca aggtggacga cgccaccggc aaggtgaccc 120

gcctccgcaa ggagtgcccc aacaccgagt gcggtgcggg tgtcttcatg gccaaccact 180

tcgaccgcca ctactgcggc aagtgcggcc tcacctacgt ctacaatcag aaggcgtaat 240

cccatgcgcc gctttgcttc acccgcctac ctatcaagca ttcacctgtt ggttactcga 300

tttgaatatc atttagatct gtttgaggtt ggaacataaa tgcagcagta gtttctggca 360

tattatattc ntt 373

<210> 39660
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H4

<400> 39660

agcttctgca tgaagtagaa gatttcacca agagaaaatt tggcaaggag aacgtggatg 60

aaggtgcacg agatgcgtct gagatcttcc ggtacataga ccatgtccga acatatccta 120

ccataatgtt tggaggaatt gagggctctc aagtctgcac tgtggccttt cagcgggtgt 180

gactgaaagc tgaggcacac atagttcttg gcctgacgtg tcacgttggg tccagaagaa 240

atggataaaa aattttgtgc ttcgcctgtg ggactgttcc taccgtatta aggaacagtc 300

caaactgtgt cttcttctgt tgttagctca tctatccagg atggtcgtgt aattttagat 360

ggaccagact atgagacgaa tc 382

<210> 39661
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H6

<400> 39661

agcttctgca tgaagtataa gatttcacca tgagaaattt tggcaaggac aacgtcaatg 60

aaggtgcacg agatgcgtct gagatcttac ggatcataga ccatgtccga acatatccta 120

ccataatgtt tggaggaatt gaagtctctg aagcttgcac tgttgccttt tagctattgt 180

tacttaaagc 190

<210> 39662
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H7

<400> 39662

tccacagcaa taagcttcat gagataattg ctcctgtcaa gagatctatg agccaactga 60

ctcgatacca agggaggtca gtctggttgc tggcctacat tgctttttgt aacatccctg 120

gccgctgctt gggctcctta gcttccatca accttccgga aaaggccaag gattccgttc 180

cagcttaatt gatccatact aatataaggt aataccaata ccataatgca caatcctttg 240

agcttccaaa ggcaattttt cccgggtcgg cacaagttcc ggggaccgga ttaataacgg 300

ttattaacaa accttggggg cccctggatt aaccggtacc tttgaaattg gaatggaatt 360

tacaccaaat ta 372

<210> 39663
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H8

<400> 39663

gcgggaggtt ctagccgttt cctcctccta cagtccactc ccactccgca gtgggacggc 60

gccgccgccg ccgggttctc gatcgggcta ctcccttccc ttcacttccc ttccttaccc 120

gccgccgcgg cacacggtgc acgtggatgg gctgcaaggg gtccaagcac gcgctgcacg 180

ggggctgtgg attggcggcg cgagcgccgg agccgcagag tcgctcgggc cgactggcgc 240

cgcggcactc cgtggtcgcg ctgcggtcgt ccacgctcgg aacgctcagc ctcgaccgcg 300

ccgtggcggc cgtcgcggca gcgggcctct ctttcgacgc tgcagcaaca ggaggaggag 360

gaggaggagg a 371

<210> 39664
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H9

<400> 39664

gagccatatt tgaaacagtt aagaattcat atataagagt gcatatatat atatataatt 60

ctgccaagac aaaggtaatg gagtcgtcac gcatgttcca gccggccatc atcctgcttc 120

tcctgctcat tgtgaccacc gatgtggcgc atgcggcgag ggaatgcgag aaggacagcg 180

agcgattcct tggtgcatgc atggcgtctg acaactgcgc caacgtgtgc cgcggtg 237

<210> 39665
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A11

<400> 39665

gcaagggcgc cgcgcggggt attctgtccg tcgctgagga tagagagtta cttgcaccgg 60

gggagccgag atgaagccgg ttgtggggat cgtggtgtcg atcaagatgc agaactcgct 120

ggtggttgta gtggaccggc tattccacaa caaggtatac aaccgctacg tcaagcgcac 180

ctacaagttc atggcacacg acgatgacaa cacctgcaac attggcgacc gcgtttggct 240

ggatacttct aggcccttga tcatacacac gcactgggtt gttgctgaaa ttctccgcac 300

agcttaggtg tacgtttcac cagctgtaac agctgttcag tgaacgttgg agcaaatttt 360

aacaagcttg tggtgctacc aaatgatcca tt 392

<210> 39666
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A12

<400> 39666

cgaataacac aggtcagcgc gacgatggca tccctcgcta ataacatcat ggtcgggggc 60

gccatccttg ctgcgctcgg ctgcggcgat tcgtgcgggc cccctaatgt gccacccggc 120

cccaacatca tcaccaacta caacggccag tggctcatcg ttagggccac ctggtactgt 180

cagtccaacc gtgcctgaac tcctgacaac cgcttttcta tgctggatca agaacgtgaa 240

tctgccaccc tacatcttta tgactgcatg cggtaacgtg cccatcttca atgactgcta 300

ggg 303

<210> 39667
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A2

<400> 39667

gctttctcta ttcgatggaa aacgcatagg gtggtggcgc ttgcacgccc tggcgactgc 60

ttgcggcggc ggtgtcctgc gcgcccgctc caaccatcct ccggggcaac ggcgacgtct 120

gctcgcctac gtgcctagac ggtgaggcag cgacatcagg acgcccgtgc gcacgcgtgc 180

ctgcacggcg gctgtgcgcc ctcacgccgg cttgccgaac ggcgtggcgg tggtgccatc 240

ctgcggggcg gcgtggtggt cgcatgccta ttcgccgggc ggcgtggcgg tcgtgcccat 300

gagtcggatc cacgtggctg cgcgcacgcg ctactgagct gcaaggcgat ggcgcccgca 360

cgcaactctg gcttggtagt ggctgccagc ccacaacacc agagaggcgg tggtctattc 420

ctgcttcgtc gt 432

<210> 39668
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G6

<400> 39668

cggacgcgtg ggatcggtca aagacaaaag atgattgctg tgagcatcat gtggtcatta 60

gtgcaggtgc aggtgctggc ggcgatggca ctagcatttc tggtaggcgg tgcctggtgt 120

ggtcctccca aggttccccc gggtaagaac atcacagcca actatggtag tgattggcta 180

gatgccaagg caacatggta tggcaagcca acaggtgccg gcccggacga caatggtggc 240

ggatgtgggt acaaggacgt gaacaaggcc cctttcaaca gcatgggcgc atgtggcaac 300

gtccacatct tcaaggatgg tctaggctgt ggatcctgct tcgagatcaa gtgcgacaag 360

ccagcgtagt gctctggcaa gctcgtggtg gtgtacatta caga 404

<210> 39669
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A3

<400> 39669

ctcgttttga tttggactga tgaaaaagca gtgaaactag cctttattta tggctaactt 60

tgcctgttgt atgccgcaaa tctacttttt ttcttggcaa cgtctcgttt cgcacgatcc 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaatgg aaaa 194

<210> 39670
<211> 192

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E8

<400> 39670

caagagcggg cagtacttcg aggtcaccgt cttcaagtcc gtgcagtccg acgtggaggt 60

ggagttcgcg atcggcgacc taagcaaggc tgagcggttc aaccccaggt ggctgaccga 120

cctgcaggcg ctgtgcatga agcggtgcgc ccgggagacg ggcgaggtgg ggccgttcgt 180

tctgtgggtg ct 192

<210> 39671
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F10

<400> 39671

cggacgcgtg ggcggacgcg tgggcctgca ttcatctcct ccaccaccac caccaagctg 60

aacaacagcc atctcgcgaa aataatgaag agccgcagcc tggcatcatc ggccgagctc 120

ttggtgctag ccctcgcgct agtggcggcc accggctcac aggtagcagc tgcaaag 177

<210> 39672
<211> 75
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F11

<400> 39672

cagcagggaa catcgtgcat ccgagctaat tcattaggtc aaaaatgacc cgtgcaaggg 60

gatttacctc aagcc 75

<210> 39673
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F12

<400> 39673

gcttatatat attattataa gctacaaaga tcataagaac aaatgatatt taactattta 60

tcaataattt agctatcacc atttgagagt ttcgtaaata tatgtactag tctatttgca 120

taaattataa gagatggata tgctagataa caaatactag gctagcttat gtatcaacgc 180

actcattata taattgacat atgctagtac atgtctcatt ttt 223

<210> 39674
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F2

<400> 39674

caaatcactg taatggggtt taagagggca tctcaagatt ccatcaatag atatatccgt 60

gcgttctcat tcggctcacg cgcacccaac gtcccttctc cctgtcctag gcttccttcg 120

actttgctct ttttgacgat tttatttcgt cgagcagcac aggcatggat tagttagact 180

ggatggtcag aacacgaggt gaaaacggtg ccttcgtcgc ctttagcgcg cgacggcgtt 240

tgatggctta cgcttctgca tcatgacctt ccaatagtac acgcccttta tcgtctcttt 300

taactcgtc 309

<210> 39675
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F4

<400> 39675

gaccctggga ccggggctca gatcggatcg catcagatcg aaggcgtcca gaattttcca 60

tcgggcgtcg ccggtatggt gatccgcagg ggttcttcgt acgccgtcgc ggcacttctc 120

gcgctcgcct ctgtcgccgc cgtcgccggc gaggtattct tccaggagaa gttcgaagat 180

ggctgggaaa gtcggtgggt caagtccgag tggaaaaagg acgataacat ggctggtgaa 240

tggaaccaca cctcggggaa atggaatgga gatgcagagg acaaaggtat tcaaacctcc 300

gaggactaca ggttctatgc catttcagct gaataccctg aattcagcaa caaggataag 360

accctggtgc tgcagttctt tgggaagcac gag 393

<210> 39676
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F6

<400> 39676

cggacgcgtg ggttgtcgat gaccttgtct ctgttgacac tctcatcgag gaccatctct 60

gcgctgagcc agtgagcgaa tacgtccaga gctgcgacat tgtcgccttc aacaagatct 120

aaatttgctt gtgatggtgg caatggtggt tggtgggcac tgtaccagcc taatttataa 180

ttttgcatga gcatcatcaa gagtctttct aagttatcat ttgtagtcat tgacatagaa 240

cgcactttct atatctgtgt aatatcatca acggatctat atcttgttag caccattttt 300

agcta 305

<210> 39677
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F7

<400> 39677

aaaaaatcaa ggctacacac caacttactt tctaggtctc aaattaaatg gcctactcgg 60

gctcctgctt gctgctggcg tggatagcgg tggcggcact ctttgtcgaa ggctcgtgtg 120

gcggcgcgct caccttcacg atcggcaa 148

<210> 39678
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F8

<400> 39678

actagcttca tgcaaccagc tgtttcaaga ttggaatctg cgttggctgc cactgagatt 60

agaacaccta gaatgtccgg tcatctccaa tgttgatgcg cagccccact cagatcctaa 120

caccatcaag cagattttag ctcagcaggt aacctctccg gtgcaatggg aaaccactgt 180

taagaatctt atgggcaagg ggcttgagaa aagttatgaa ctcggacctg gaaaggttat 240

agcaggtatt ctcaagagga tcaacaaagg cactagcatt gagaacatcg gggcttaaac 300

gtctgggatc tgaagaactc ttgatggaac caagttacac agcagaagat tgaaacatgc 360

cattattggg gaccatgttt tcacttagag gtaccggttt tttaccttag tgggtggaat 420

t 421

<210> 39679
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F9

<400> 39679

aaatccccaa agcctccgac ccccttcctc tctccctccg ccgccgctgc gcacgcaggg 60

aacaagcgac atgggcgtct acacctttgt gtgccgcaac aacggcggcg agtggaccgc 120

caagcagcac tccggcgaga tcgaggcttc cgccgctacc ccatacgagc tgcagcgccg 180

cctcgtcgct gccgcctccg cggccgactc tgcctacggc gtccagtcgt ccttttcat 240

ggtcactccc agct 254

<210> 39680
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G1

<400> 39680

ctcaaggcgg cgcgccccga gtggagcctc gccgcgatgc gctccgcgat catgaccacg 60

gcgcgcaccc aggacaacac gggagcgccc atgcgcgacc acgatggcaa ggaggccaac 120

gccttcgcct acggcgcctg caacgtgcac cccaaccgcg ccgtcgaccc gggcctcgtg 180

tacgacgcca ggcccgacta ctactttaca ttcc 214

<210> 39681
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G10

<400> 39681

caaccgacaa cacacggaga aggggaaggg cggcgaggga agggctccgc gtcacgtgcg 60

tactgtagct gctactctat ggaacactcc atccatcagc gctgacctcc gcattgctct 120

agataccatg cagtacatcg agtctgccgc caagatcaaa ggccggagaa ggaggacgaa 180

agggtaggga gtcagctatg ggatgctctt catgctggcg agtggcagat gacgacaacc 240

ttggcaggag gaag 254

<210> 39682
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G11

<400> 39682

gcggcgcagc acggaggcga atgaggagga ccagcagcag caggcagcgc caaggagcgg 60

catcccactc aatgcttgca gccatggcta gggggttgaa gaagcacttg aagaggctca 120

atgcgcccaa gcattgcatg ctcgacaagc taggcggagc ttttactccc aaggcatctt 180

ctggacctga caaatgc 197

<210> 39683
<211> 133
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G12

<400> 39683

gagacgcgtt cgaagacaca tacggggact cttggtcttt cgtgtggtcc gactactgcg 60

aatcgaagcc gagatacgac ggtgggcttc accggcaccg gatcaagggg taaggggaag 120

aagggagcag cct 133

<210> 39684
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G2

<400> 39684

tccctcgatt agtaataaca ggaaaaccat ccgccggagg ccggagggca gattctccac 60

caccgcctcc accccgccct cacgacgcga atctgcggcg aacccccctc tcgtattcct 120

tctcgccgcc ctgccccgag cgcaccgttt agaggccgcc aggctccggc acccccgccc 180

gcccgggctc gcctggggtc gggatgccct gctgcccgcc gtcgctgctc ggagtcggcc 240

cacggctgcg ctccttcctc cgcgactacg acgcgctcca gtccctcgcc ctcgtactca 300

tctaccttca gattggttgt gcactgatcg gatcacttgg ggcattgttc aatggggttc 360

ttgtgatcaa cctggtgatt ggtctattcg ctggtgttgc aattgagagc agtagccaga 420

gacttggtcg g 431

<210> 39685
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G3

<400> 39685

ggatgagtac ggaggagaac aagtttacaa cttcgacgat atgggacaat atctttgcaa 60

ctacgacgac atgggacaaa gggtgatagt gtcacacaat tcttcacctg aactcgatgc 120

attcattaaa aaaatacaaa aatatcaaga acaaggaaac ccactatcag cttaaggcag 180

acctgatcga gcacttgtgg caaaaccatt ctgaggtata taaaattgat taatgtgcta 240

tttatttatt ttaatctact ttatgtaata agaacaaagt tgggcagtaa acatggttac 300

tgtttatttc caattcaatt gcctgcaatc aatgtgtgga gttaccgtgt cacaaaaggg 360

ggggataatt taataattaa atttttaagt ttttaaggaa ttttcc 406

<210> 39686
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G4

<400> 39686

gacgatgctc atcggtgctg accccacgca cgtcggcgac cgctgcatca gggtcacaat 60

ccaccactgc ttctttgacg gcacgcggca gaggcacccc cgcctccgct tcggaaaggt 120

tcacctctac aacaactaca cgcgcagctg gggcatctac gccgtctgcg caggcgtaga 180

ggcccagatc gtgtcccagt gcaacatcta cgaggcaggt ggagggcccc caaagaagac 240

aactgtattc aagtacatgc cggagaaggc cggcgaccga gaggacgtgg tggcagggtc 300

gatcagctcg gaaggggacg ccttcctcaa tggcgcgctg ccctgcctga tcgataaccc 360

tgggtctgtc ttcaggccag aggagtacta ccagc 395

<210> 39687
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E6

<400> 39687

aaacatcatg gggcaagcct cacggctcgt cctcctcgcc gtcgtggcgc tgctgtccgt 60

cggcctactg ccgcaggcgc tgggtaaggg taggggaggc aggggacacg gtggcgccgt 120

caacccgcag gtcgccggca tctgctctcg caccccgttc ccggaggtgt gcacgttcac 180

cgtcgggcgg cacgcgtcca agtacccggt catcgacaac ctggccgtgc tgaacatgca 240

ggtggacgcg ttcgccaagc gcaccgcgca agcgcgcaag cacgttgcga ggtcggcccg 300

caccatcccg ccgcagcaga cgcaagcgct cacgttctgc gacaccatgt acatgaacac 360

gc 362

<210> 39688
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G5

<400> 39688

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcacg acctgtgggg ttcagatcgg 60

atcggaagct tccataagtg tccatcgggc ttcgccgctc gccggtatgg cgatccgcaa 120

ggggtcttcg tacgccgtcg cggcacttct cgcgctcgcc tctgtcgccg ccgtcgcagg 180

ggaggtcttc ttccaggaga agttcgaaga tggctgggaa agtcggtggg tcaagtccaa 240

gtggaagaag gttgagaaca tggctggtga atggaaccac acttggggaa aatggaatgg 300

aaatgccaag gccaaaggtt ttcaaacctc cgaggattac aggttctatg ccatttcagc 360

cgaataccct gagttcagca acaaggataa gaccctggtg 400

<210> 39689
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-055-Q1-K1-D11

<400> 39689

cccacgcgtc cggtgaactt caacggatgt acaaattttc aagaattggt gtgcgaatct 60

ggggatagcg gttctgtgga tatgccagtt gactcttgtc cacctagttc accaatcaag 120

aatgaagaga tcagtgagca acctggccgt ctgcttgaag ttctcaattg tactgggtgc 180

cctaatatta agaaagttgt tattcctttg atagcaaact tttcacatgt gtccaaaatt 240

aatcttaatc tttcaaccaa cttgaaggaa gtggattnga catgctccaa tcttttaacg 300

ttaaacttga gcaattgtag ctcacttgag gtgctgaagc ttgattgccc aagattgacc 360

aacctccaac ttttggcatg caccatgttg caagaggaag aattagaatc tgcaatatcc 420

ctttggtggg c 431

<210> 39690
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-055-Q1-K1-D12

<400> 39690

gacaaggagg acagcgacat attcaagtgc tacgacagct gctccgacga cgtggaggag 60

gccgtcgccc acctcaacgg cctcgtccgg gagcccaccg acgccaagtt cctcgagctc 120

aagtcgtggc tctcctccac gctcggcggc acctncacct gcgaggacgc ctgcaaggac 180

ctgcccaaga ccagcgacaa ggacgacgtc gtcaacttca gcctcgactt cgagaagctg 240

cagcgcgtca cgctcgacct catcaccgag gcgtccggca ccatgtccgc aggcatcgcc 300

ctgccaccct tcaacgccgg agcgccctnc tacggcgcgg cggcgccttc cggggg 356

<210> 39691
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D3

<400> 39691

gatggattga gtaactccag tcaaatgaaa ttcaaagata ttaattatgt gaggaaaaac 60

ttttggaggt caatgcatga agactcagaa caggagaatg ctgattcaga atttaaggcc 120

actgtttcac aggttcttac taatcaccag gaggataagg tgctcgacaa cactgaagtt 180

cctcaggcat caatctatag aaacttgtgg attgaagcag aagcttcagc ttgtaaactc 240

aaatacgagc ttcaacatgc tctcctgaag ctcgagacag caaaaggcct caacgacaca 300

ataaaagccc ctgactcatt ggaagacagt aaaggctcta actcatacat tttcagtaac 360

aaaccacaga accatgggaa aggaaccggt acatgcgc 398

<210> 39692
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D4

<400> 39692

ttggcaactc ctcataactg atgcaaggtc aacacaccgt ttgactcaca atgtcagtgt 60

caggctccat gttcccagtg gtagcgacct catggtgact gaagtcacgt tcgtgctgca 120

tctaagcgta ctctcatcga ttcacaccat catactattg aagattacca tcaggtactt 180

cgactacacg attctacttg cta 203

<210> 39693
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D6

<400> 39693

gcaatgtctt gttttcatgc cgctgagggc aagcctgcca acttacctcc tgaggatgag 60

gctaagttta aggctgaaga caacctcttt cgaggtgcag tgattagcgc actggatact 120

aaattccaga aaagctatat catccttccc acagggaaag agctgtggga tgcacttgtc 180

ggaaagtttg gag 193

<210> 39694
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D7

<400> 39694

acatgcctgt gtatgtgcga tccatgtggt cgccgatgcg ggcacatgct gcgatggctg 60

tagcgttggt gatgcgtgat tgagcggctc aatggtgcgt gctctacagg agtcttacta 120

agcacgagca tcacaaccag ctatagctcg gactggctgt acactcatgc gactttgtat 180

gccaagccga cggatgccag tctcgacgtt agccgctgct gttgtagctt caaggtcctg 240

aacaagccct cgttccatag catgtgctca tgc 273

<210> 39695
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D8

<400> 39695

ggcttctcct ccccctctta ccaagtcctc ttcgggttag ggttacttag ggttttgtgg 60

aggggcgatg gcggcggctg atgtggagta ccgttgcttc gtcggcgggc ttgcctgggc 120

caccagcaac gagtcgctgg agaatgcctt cgcctcctac ggcgagatcc tcgactccaa 180

ggtcatcacc gaccgggaga cggggaggtc ttgcggcttc ggcttcgtta ccttcttctt 240

cgagaacttc atgctcgacg ctatcgagaa catgaaccgc aaggagctcg acggccgtaa 300

catcaccgtt aaccaggccc 320

<210> 39696
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D9

<400> 39696

cttcgcagcc agttgcaagt tgctcgagca gaggctgaac atgccattca acttaggcaa 60

cggtttggtg gtgccgttgt cgcaaatggc acaggatcta gttctagtcc gctgctgatg 120

tctcctcagt tacagtcgct gaatccagca ccctcactcg cccctccaat cggtgcagcc 180

ggagatgagc ccaagagaac ggcagcagca atggctgaca agctggcatc tctgtcagcg 240

ccggtgcatg tcctgagctc catcttctca tctttcgtct gcacacactg cgcttcggta 300

tctttcatgg accggggaat ttcctccaaa ggcccacctt tccgggga 348

<210> 39697
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E1

<400> 39697

caaaccttgt tggcctcttt attgtgatgt aaccgatata aaaaccttat ttgtgggttc 60

aataaacata tcatgtagtt caattattgt ggagattaaa gtttttggct aatgttcact 120

attctttgtt gcaatatgtt gtgtgtttgc ttatctacaa ggaaaatatg ataggcatat 180

tacatgccca taaatgcgta gttgaagact atgtgtttgc tcattttcat gcaactagaa 240

tggttcatac tcatgaggat tctcatgcac gggatcacct catatgcgac aattaaatag 300

attattcagt tagtaaatta cacataatct tttgatatgt tagtcatttt tactaaattg 360

tgaatagtgc ta 372

<210> 39698
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E10

<400> 39698

cggacgcgtg ggctcgtggt gtcatcgtgg ggtggcgcgg cgacttctgg gaattgcctc 60

ggcgaggatt gggcgtgagg tcacgaggat ttgaagaatc accctggtta ctggaatctc 120

aagtgccagc cttacacttc acatgaactc ccacctttgg tgagttcatg catattattc 180

cccacaactt gttgagtgat gaacatgtgt gagctcaccc ttgctatatc acacccccc 240

ataagagaag aacaggtggt tcaagaggag ccacacattt aggagtttga ttcagtctag 300

gtggcgtctc ccacttgact ttctggcgcc aaggatggat tttagatccc tttatatttt 360

<210> 39699
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E11

<400> 39699

ctggcgctag tcacaagccg atcaagggca agctcatacg ttgccactcc cgaaggaaca 60

taaccctgct tattccacac tgacatgtca cccttgctta tcgcacactc tcactagtgc 120

aacaagagct ttgtttatat cgatgtgcat tccatcataa agggcacagt cgatgatctt 180

ggtagcatgg aactaggctg gtacaccatt gtcgctcact aacactgcag gaagcgtctg 240

agcgattatc tcagattgca tgtactgact gccatacata cacctggagc tgcattacct 300

tggctcacga caggccctga taacccgtat gcatccctac ttaagtttgc cgtgctcttg 360

acggaacctc tgaggctgaa caaaccc 387

<210> 39700
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E12

<400> 39700

cgccgtcgga ggcgccctcc agcagcagct catccgacta gccgcgcaca acgcagttct 60

tgtcatgatc tatctagcaa ataaaaagat catatgtctc gtttgattct ctggaataac 120

taatagtata tatgctgcgc ccggatgata tataaatatg tgcatcaaat gcgtgcggca 180

aacgcatgga atgtgcttgc ctagctagct aattgttggt ttttttttct ttacttttct 240

tcatacctgt ctctctctct cggaggttta atttttcttc aggcatgtaa tataatgtga 300

tatacccaat ttatccaacg cgctttaatt c 331

<210> 39701
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E2

<400> 39701

caggaggagc gcgccatgga gcggtgcatc ctgccgctgc tccgccgcgc cacgctggtg 60

cagacgttcg gccagcgcaa ccacgtgtgc ctgcaggacg gctccatcac cgtgccgccc 120

tacgccgacc cgcgcatgat gcaggctcac ctcatcagcc ccggcacgcc gcgctccatc 180

ttcgactact tcaggggcct cttctacgac atgggcaacg accccgaggg cggctactac 240

gccaggggcg ctcgcgcgtc ggtgtgggag aacttcaagg acaacccgct gttcgacatc 300

tcgacggagc acccgtcgac gtactacgag gacatgcagc gcgccatctt ctgcctgtgc 360

ccgctggggt gggcgc 376

<210> 39702
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E4

<400> 39702

gggttgtgta ggctgtgacg ttttttagtg aggtaccttg ctgagttcaa gtctggtgca 60

gagaggaagg atgctgcgga gagcaccatg aatgcctaca aagctgctca ggacattgct 120

cttgcagatc tggctccaac ccaccccatc aggcttggcc ttgctctcaa cttctcagtg 180

ttctactacg agatcctgaa ctcccctgat cgcgcctgca accttgcaaa acaggccttc 240

gatgaggcga tctctgagct agacagcctg ggagaggagt cctacaagga cagcactctg 300

atcatgcagc ttctgcgcga caacttgacc ctatggactt tcgacacc 348

<210> 39703
<211> 359

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D10

<400> 39703

agcagcagta ggtcgaaaat ggcgatgagg tcgctagcgc tactggtcct cctcagcctg 60

ctggttgttg gtgtggcgca ggcggtggag ttggagatgg agttggtgcc tgctgatgca 120

attgcgatga ctatggatca tgagccgccg caggagtgcg cgaccccggt gagcgtggag 180

gaggcgtgcc gcggcgcgtc ggagacgcac gccggcgtgg cctacgacca ctgcatggcg 240

tcgctgggcg ccgacccgcg cagcaaggag gccggcaaca agaacatgca cgcgctggcg 300

gtgctggcca ccaggatggc catcgaccac gccgtcagca ccgagttcaa gatcgacga 359

<210> 39704
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E5

<400> 39704

cacaccttgt tggcctcttt attgtgatgt aaccgatata aaaaccttat ttgtgggttc 60

aataaacata tcatgtagtt caattattgt ggagattaac gtttttggct aatgttcact 120

attctttgtt gcaatatgat gtgtgtttgc ttatctacaa ggaaaatatg ataggcatat 180

tacatgccca taaatgcgta gatgaagact atgtgtttgc tcattttcat gcaactagaa 240

tggttcatac tcattaggat tctcatgcac cgtatcacct catatgcgac acttacattg 300

attattcaat tagttaatta cacataattt tttgatatga tagggattcc tact 354

<210> 39705
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B4

<400> 39705

cccgaccacc tagctgtatt cccaaaacgt tttcccctgg aaagagaaaa acggagattg 60

cttgcccccc tttcccttac gcatcgtcga aaccctagcc ccgcctcgcc gacggcacgc 120

cggatcggtc ggcgccatgt ccaaggccag ggtctacgcc tgcatcaacg tgctgcgaca 180

caacgcgtac tcggattacg aggcgctcac ccgagaacgg ggcgagcaag atgactatga 240

agttgtcacg aacgtcacga gaggaaaata cagtgaagta tttgaaggca ttaatggtaa 300

caataatgag acatgcatca tcaagatcct taagcctgtg aagaaaaag 349

<210> 39706
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B7

<400> 39706

cccacgcgtc cgattgacga tcgggaaatg atggacggag agggacaggc ggaggcgtct 60

cggtcgccga tacgagcgat ccatcgaccc atcggcagcg gcagcggcag cggagcgggt 120

ggtggtctgc actgcactgc agccgcaagc ggcggcgcag tgcggaagga gtaggtgcgt 180

<210> 39707
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B8

<400> 39707

gggtaaaaat gattaaacaa actttttaa tccaggcctt taaacaccaa atacaaagaa 60

attcataagt atttaaacct tttgaaaata aaattgaaac cgttttcata attaaagggg 120

ataacatcaa caaatttttc ctaaa 145

<210> 39708
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B9

<400> 39708

ggcgcacgct tgctgactac aacatccaga aggagagcac cctccacctt gtgctccggc 60

tcaggggagg catgcagatc tttgtgaaaa ccctgaccgg caagactatc accctcgagg 120

tggagtcctc tgacaccatt gacaacgtca aggccaagat ccaggacaag gagggcatcc 180

cttcagacca gcagcggctc atctttgctg ggaagcagct tgaggacggg cgcacgcttg 240

ccgactacaa cattcagaag gagagcaccc ttcacttggt gctgcgcctt aaggga 296

<210> 39709
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C1

<400> 39709

ctgtggcaag aatgctggtc tcagcagcag ttcactcaag ctccacttgc agaaggcaca 60

caagaagata tcctctggga gcgtagacag tgcaatgact ctggagatac aaaaagcatt 120

agaggcaatc aaagctggct ggggcggcag tgacagccca gtgcataaat cacaatcaca 180

catagaagga ttttgacgtt taatcttacg ttcctacggt gctattaata tatcaacaag 240

gctggtagtc ggcgaccgct ttaagagtga agcctcagct ctagacttca tgacacttgt 300

aagtagcaca tttttggaac atttggtttt tattctatag gtcatgagct tggattgaca 360

agaaccatcc atagagggaa tgtaagttct ggtataaaat tgtgcgaatc ttttttt 417

<210> 39710
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C10

<400> 39710

aagaagaata gcagccgacc ctattgccgc cgctggtaat gcccgcgcat ggggttctct 60

ggctttggtc ggctgcttcg gttgcatcgt ctggagcctt gtgatttcac gccggtgcga 120

actcattgcc gcgcctggag agagatgcga ttgagggaga ctgcggatgc ttttgtgcga 180

ctgaagttgt gcttgcacag tggcgacatg cg 212

<210> 39711
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C11

<400> 39711

gcgatgtcgg caatcacccc gacgacagct acaaccggag tgcgctcccg atcgtcgacg 60

cccttacggt aaagaatgtc cagggccaga acgtcaggga ggctgggctg atcaagggca 120

tccccaactc ggccttctcc cggatctgcc tgtcgaacgt caagttcact ggtggcgcac 180

ctgtctggcc gtggaagtgc gaggctgtca gcggtggcgc tctcgacgtg cagccgtcac 240

catgcacaga actgacttca acgtcttgga ccagcttctg tacaaattcg ctttgatgct 300

ttggcagcta gcttaacctg ttgtaatcct ccggatttac caagatggat tccggtgcct 360

taaagcttgg gcacccaagg atttatcttc ccgaaaatta atttggtttt a 411

<210> 39712
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C12

<400> 39712

ctaacgacta tcattaccct ttttttattg aaatatgttg ggccgttaag ggcctttcaa 60

attattaagt ggtgggggtc cattttggca cttgggctag ggttcatgcc ttgaaattaa 120

tttggttttc tacactgctg agatgtgcaa gcgttttacc caggggggtgc actttacggg 180

ttttttttggg ttggac 196

<210> 39713
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C2

<400> 39713

gtcgtactgg cctgcgcgtg cctgcgcagg agacgtcgtg gccatggatg aaaggcgcgg 60

gcacacggcg atcgccgctg acatacaggg catcgtgtcg actctgattg ataaaaccat 120

agactcgcag gctgagttgc tacgacaatt atcagacttc actcaatgcc atcatagcat 180

gaaagtgacg ctagtgatgc tgaccagcag cgagtgaata tagctgccga ggcaatatcg 240

taccgaccta ctactctgca tctacagcat ctggaacgcg tccaggattc aagggttgat 300

ccttctgcta tg 312

<210> 39714
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C3

<400> 39714

ggcaggcttt cgacggcgtg gtggccgccg ctacggcaga gaagcggtcc caggcggtgg 60

aggccgtgct gcagcagcag ctgaacatgg acgtgtccct gtccaaggcg acgtcttccg 120

gggacgagaa caactacgtg agcgtggccg ccgcctacga gaaggccgcg ggcgccgtca 180

tcgcggcgac gccggacaac aagctccgcg ctatggcgtt cgcgttcgac ggcgcggagg 240

cgccttaccc gggccggtgc cacgtcgtcg acaagccctt ctgagagacc tacgccaaga 300

cggagaacgc cttcagcgga accattgcct acggggacac gccc 344

<210> 39715
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C4

<400> 39715

ccatcaagta caagtaggca aattcgtcaa cttagtgtgt cccatgttgt ttttcttagt 60

cgtccgctgc tgtaggcttt ccggcggcgg tcgtttgtgt ggttggcatc cgtggccatg 120

cctgtgcgtg cgtggccgcg cttgtcgtgt gcgtctgtcg tcgcgttggc gtcgtctctt 180

cgtgctcccc gtgtgttgtt gtaaaacaag aagatgtttt ctggtgtctt tggcggaata 240

acagatcgtc cgaacgac 258

<210> 39716
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C6

<400> 39716

atcttgaccc acaacagcaa gggcatcaac taccagatcc tttccaaccc agagttcctt 60

gcggagggca ctgccattga ggacctgttc aagcctgaca gagtgcttat cggtggccgg 120

gagacccctg agggcaggaa ggccgtccag gctctcaagg atgtgtacgc tcactgggtt 180

cccgaggaca ggatccttac caccaacctg tggtctgctg agctcttcaa gctcgctggc 240

aacgcgttcc tggcacagaa gatcttctct gtgaacgcca tcttcgccct ctgcgaggcc 300

accggcgcga atgtgactg 319

<210> 39717
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C8

<400> 39717

cacaagtcca agctcctgaa gatatcagtt tcctggaaac cattgatact gctgaacccc 60

tcgcaaggat tgcacctgct gactcgtctt ctaagcatgg tgaagttgac ctatcacagg 120

agtttgcatt aaccccatta gcaatgaact accagggcag tgatcatgat tctgtgcact 180

cccctggggg cgtctcatcg cccgataaag tctccacaaa ctcgcgagct ttagttccag 240

ttccagctgc agatcccaat gcaggagcta tagttccagc gaataagtct aagaggtcac 300

cagagcatgg gcaacgcaga atcaggcgcc cgttctctgt tgctgaagta gaagcacttg 360

tgctcgcaat cgaaaagctt ggaaccggaa ggtggcgaga tgttaaactt tgcgcgtttg 420

a 421

<210> 39718
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C9

<400> 39718

tcgccccgcc gctcctcagc catcctctcc atctcggtgt cacacactcc gcatacgcac 60

ctacgagagt cgagtgacag cgagcgagcg agcgagcgaa gccatggctc ttcgcaccct 120

ggcatcgaag aacgccctat ccttcgcgct cggctgcgcg gcccggccgt cggcggcgtc 180

cgcgaggggg gtgacgactg tcgcgctccc cgacctcttc tacgacttct gcgcgctgtg 240

accggccatc tcgggggaga tcatgcgcct gcaacaccag aagcaccaag ccacctacgg 300

ttgcaactac cacaaggggc ctgaacagct tgacccttcc ctcggcaagg gccaacgctt 360

cgctgtcgtc cagcttcagg gcgccatcaa gttcaacggc tggggtcatg tgaaccattt 420

aatctttt 428

<210> 39719
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D1

<400> 39719

cggacgcgtg ggtttcaaga ccgtactggt agtttcacgg agtgttctat agcagattca 60

gagccacagt tcgaaaactt gcagcttgag gacgaggact ggttagtcaa gccaccactg 120

tccgcaggag catatgctgc caatttcaat gatgaagaat ggctggtcac accactgaag 180

cgctcccgtg tcatgaatgg tattgaccat gaggatgaag agtggttagt taaggcgacg 240

aaactgtctg gtgccaagga tgctgatctt gaagctgaag agtggttagt caagtcaggg 300

cagcctaacg atgctttgga ttcggacttc cgcttcatac acgaattttc tgaacaaggt 360

gctgcagaac ccttgcacat ctatgtcagt ga 392

<210> 39720
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B3

<400> 39720

aagggtgata aagttgtgca cgagaagaag gttcttgaag tgtttgtgga gaaaggcatg 60

caaaatgggc agaagatcac attccctggt gaagctgatg aagcgcctga cactgtcact 120

ggagatatca tctttgttct ccagcagaag gagcatccca agttcaagag aaagggcgat 180

gacctcttct acgagcacac cctgaccttg actgaatctc tgtgtggctt ccagtttgtt 240

gtgactcact tggataacag gcagctgctg atcaaatcaa atccgggcga agttgtgaag 300

cctgattctt tcaaggcgat caacgacgaa tgcatgccca tgtaccaaag gccgttcatg 360

aagggcaagc tgtacattca c 381

<210> 39721
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H6

<400> 39721

cgtagaatgg aacggttgcg cagtactaaa atatggaggc ttctattgta cccatcctac 60

taggaaatta tgagccagtt gatgaggcat gaattatttc acgacttggc cgcggttagt 120

gtgaaaaggc gacgctgcta tatatggtca tcacccttgg tttgtccgtt cgccagatat 180

cacgattatc atatttatcg gttgtaatat aagcttcttg tattagcata tggtttaata 240

tttttttca gatgggatga ggtcctgcgt gatatcctat ctgtaaatag gaaggcacta 300

gcagatctcg acaaatgtac aactggtttt ttttttgaga aacttgaaat aagatttatc 360

gttcaccac 369

<210> 39722
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H8

<400> 39722

ccggaatgac ccatgcgacc cacgcgtacg catacaatgg aactgcagcg cattactaac 60

atatggaggc tcttattgtg ccgaggctac gatgaaatta tgaggcactt gatgaggcat 120

gaattatttc acaacttagg cgacgttagt gagaaaaggc gacgctgata tatatggtca 180

ttgtccttgg tttgtccgtt cgccagatat caccattatc atatttattg gatgttatat 240

aagcttctcg gattagcata tgtggtaata ttctctttca gatggtatga ggtcctgcga 300

gata 304

<210> 39723
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H9

<400> 39723

atcaatcatg tctggtcgtt cgtggacaat aatggcgcct ctcctggcgt cgatgctgct 60

cgtcgggctc gccgtgggct ccgaggagga ggaggacggc ggcggcaaaa agaagcccca 120

cgtcaaccac ggcaagttta aggcggagcc gtggacggac gggcacgcga cgtactacgg 180

cgggcgcgac gggttaactg acaccacgga cggcggcgcg tgcggctaca agggcgagct 240

ggggaaagac tacggcaccc tgacggcggc cgtgggcccg tcgctgtaca ccaacggcac 300

cgggtgcggc gcgtgctatg agctcaaggg ccccaaaggc accgtggtgg tgacgggcac 360

caacga 366

<210> 39724
<211> 358
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-055-Q1-K1-A1

<400> 39724

caaaggcaat ggctgctgag attgaggtcg ttgatggtcc taatgatgag ggtgaaatgt 60

tcacccgccc tggtaaactc agcgatcgct ttccacagcc ttatgcaaat gagcaagcag 120

cccgatttgc taatggtggc gcctacccgt cggaccttag tcttatcaca aaggcaaggc 180

acaatggtca gaactatgtt ttcgctcttc ttactggata ccgtgatcca cctgctggtg 240

ttcagattcg tgagggtctg cactacaacc cctacttccc tggtggtgcc atagccatgc 300

ccaagatgct caatgatgga gctgttgagt atgangatgg tactcctgca actgaagc 358

<210> 39725
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A2

<400> 39725

tccacagcaa taagcttcat gagataattg ctcctgtcaa gagatctatg agccaactga 60

ctcgatacca agggaggtca ggctggttgc ttgcctacat tgcttttgta acatcctggc 120

cgctgcttgg ctccctagct ttcatcacct tccggaaaaa gtccaggaat ccgttgcgag 180

cctaatggat catacttata ttatggtatt acaattacat catgccacat cctctgagct 240

acgaatgcca tttttccccg ggtcgtcaca gctcctgtgt acagtatcat caccgatcat 300

catcaaacat ttggggccc 319

<210> 39726
<211> 369
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-055-Q1-K1-A3

<400> 39726

ctcagccaac cccatcttca tcgacatgaa gtactgtccc aacaagttgt gtactgccaa 60

cggcgcctcc aaggtcaccg tcaaggatgt caccttcaag aacatcaccg gcaccttctc 120

caccccggag gccgatagcc tgctctgcac tgccaaggtc ccatgcaccg gcgtcaccat 180

ggatgacgtc aacgtcgagt atagcggcac caacaacaag accatggcta tatgcacgaa 240

cgccaagggc agcaccaagg gttgcctcaa ggagcttgca tgcttctaga ccctncatcg 300

actgacccat ctctgtagtt ataatttatc tctcgacctt gcattgccca ttagatgcta 360

ttcattggt 369

<210> 39727
<211> 103
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A4

<400> 39727

agccgctaca gctgcatcag ccggcgacgc cgattgctag gtccagcact atactatcgg 60

gctgcacggt tatcgtcttt ccgataccag ctatgctgct gct 103

<210> 39728
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A5

<400> 39728

caggtggctt cttgactcat tctgtgccct tgtatatgac aggagttgaa gtttctccgc 60

tttgctctta tgctggagag aatctagaag ctatatgcag tggaagaaca ttccatgcac 120

caagtgagat ttcgttctag gcatagtagt tgttgcaagc aatctgaata caggaagatg 180

agatcaggcc aattttgatt acaacatgac tactcttgca aatagaatgt tgatattagt 240

aaactattgt atgttatgca aggatcaaat attgtaacgc agcacctgaa gttgcctaca 300

ttctactcta gcattaatgt gtatctgcct atcgaatgta gattatgaca tgctttagtg 360

taatattttt ttttgaaaac agcatatg 388

<210> 39729
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-055-Q1-K1-A7

<400> 39729

cccgttcgcg ttgctctcca gcataccgtc actgtcgcag acggcctcgc actcgcactc 60

gccactgatc aaccagaact acccgcttct gaaccagatg caggtgttcc accacctcgg 120

cggcagtcag cagccgtcgt tccaccagga cggcagcgcg gcggctttcg gtgacatcgt 180

ctcctctcgc ctgccgccac tgccaaccgc cagaacgcag gcggagctac attcgaacca 240

attcgacacc tncatcagcg gcgggctggt ggatcagtcg atgctgatcg gcgacgaaca 300

cctgctgcgg cctaacccga gtatggtcaa ggtctcctcc atgcccgcgc tctcctaccg 360

tgagccggat gggtccagga tgc 383

<210> 39730
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A8

<400> 39730

ggaggttgaa actgttgatg actatgacga gtattgtcac tatgtagccg ggctagttgg 60

ttatggactt tccaggctca gttatgctgc tgggacagaa gatctggctc cagattcact 120

atcaaattca acgggtctct ttttacagaa aactaatata attagggatt atttggagga 180

cataaatgag ataccaaagt cccgcatgtt ctggcctcga gagatatgga gtaaatatgc 240

agataaactc gaggatctca aatatgacga aaataccgaa caggcagtac aatgcttgaa 300

cgatatagtg acgaatgcac tgattcatgc 330

<210> 39731
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A9

<400> 39731

gctgacatta catcaaattg ggcttgacgt tctacggact gatcgcacca tggtattcta 60

tgagaacaaa gaaaaccttt ccaaattatg ggatattcta gccgcgtatg catggattga 120

caaagatgtt ggttactgcc aaggaatgag tgatttgtgc tcaccaatga tagttctact 180

aaacgatgaa gcagatgcat tttggtgctt tgagaaattg atgcgtatat tgcgaggaaa 240

tttcagatgc acagatcaat ctgtgggagt tgccaactaa ctttaacacc ttgcgtctat 300

tattcaggtt cttgacccta agctacatga ccacctaaaa actcttggtg gaggtgacta 360

ccttttttgtg ttccgatgtt tatggttctt ttttaggctt tagttttat 409

<210> 39732
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B1

<400> 39732

acacttatat atatattggt gcttaaagag aatagaagag aagagaagat cgacaagaga 60

ttggccgtaa tggacttcta ggagctgcac atactggcct agcagatggt gaagcacgag 120

gagccggaga gcgcgagcaa gatgcttggc tgcatgcttg tagaggaacc ggacatccag 180

gcaatgctgc atctcgccta cggcaactgc tcacaggtac accccaagat cagctacgct 240

aaggccaatc tgga 254

<210> 39733
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B11

<400> 39733

ggctacagaa ccatagcaca catgctcaca aggcatcgtg ctagcatgaa cttcacttgt 60

gctgagatga gggacagtga acagagttca gaggcgaaaa gtgcacctga ggaactggtt 120

caacaggcgc tgagtgccgg atggagagag ggcctaaatt tggcatg 167

<210> 39734
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B12

<400> 39734

ctactcgcct cctacattga ccaacaacta agcctccgtg accgccacat ctattaggtg 60

cagccatggg tgcctgtgca acgaagccta agacgcttga ggggaaagcc ccagctgagg 120

ccaccatctc cacacccaag gttgcacctg agaccactgc catccacatt gaggttgcgg 180

cgaaacaggc agtagttgag aaggtggagg aggacaagga ggaggcacta acagtggcgg 240

cgaaacaaga gccagcattc accatcgagc ctgaacagat tgc 283

<210> 39735
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H4

<400> 39735

atccgatcca tcttgggcgg gcgccgagcg tcgagggcca gccaaagctt gccatggcgg 60

ccgttcggtc cgacagggtc caccaccacc accgccgctc cgaggcgtcg tgtccggcaa 120

cctccgcggc cgtggcggcg gcgagggccg atgacgccct gcgccagcgc ccgcgggggc 180

tcgtgcaggt ccgggagcgg gaccagggcc cgctgtcgac ggggcaccag cacctgcacc 240

accatcacca ccagctgcgg cggtcggcgg cgttcccacc ccgccgaccg gggccggggc 300

gccgaccttc ttaacgctgc gaaagcgacc tcaacatcag ggagcacc 348

<210> 39736
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G10

<400> 39736

gcgacgcgtg cgatcggagg ctctgacatc atactggtag ccaggctggt tctgatatgt 60

gttacagtgt cagtggttat ttcacgccgg attgtggttc atttgctgaa cactgagagg 120

ggagcgtacg aaccgatgca ctacctcatg agagatgaag ataatcacat acttaaggag 180

aagcactacg aggctgtacg tcaggtttaa aaacaagtcc atgaaggtaa ccagacagtt 240

gtggtgcttg gcacaca 257

<210> 39737
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G11

<400> 39737

cgcttacgta caacaggaca cgccaagcat tcatcatcac agagcttact gagattatct 60

ctggtgcatc agcccttgac ggatatgtgg atagactatc atcacttgtc cctttgtacc 120

catttgcgtt cctctcacat gtacgctact attcttccgg cggctcacat tcaaccctaa 180

tcgtttcact aggacttgat acacgtattc ttacgcttga ttgccgttat gcggacaacg 240

acagttatta tgccagagcg ctctttgcat attgcaaaaa gaatgttcta catctac 297

<210> 39738
<211> 333
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G12

<400> 39738

ggcgccatgg ccaagaaggg cgaggaggag aagctgcgca aggcgggcat catcgacatg 60

cagttgcgaa gggttaagtg caagtacgag tccaaggtca ccttccacct tgaaaagggg 120

tgcggcccca actacctggc gctgctggtc aagtacgtcg atggcgacgg tgacattgtg 180

gcagtggacg tcaaggagaa gggctctgac acgtacgagc ccctaaagca ctgctggggc 240

gccatctgga ggaaggacag cgacaaaccg cttaaaggac ccctcaccgt acgacttact 300

accgagggag gcaccaagtc cgtctacgac gat 333

<210> 39739
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G2

<400> 39739

aatggatcca agcccccact ctttgctggc atcatagcac ttgtgatgag catcgcaacg 60

atggtccgtc tgacccgcag catgatgcct gggaaggttc tcggtgctgc cataggtgga 120

gctaccctct cagaaggtaa atcaaaagta caagagcgcc agcggtccaa gctatcagaa 180

gaggctgtgg aggaagctga agacgccgtc tctgcaaagc gcctctcgga gcttgaggag 240

aaggtcattg cactcctgac aaaacccgca tcaatgcctg ctgataagga ggaggttctg 300

caggctgctg tctcccgcgt tagtgcactg gaagaggagc ttgcagctac aaagaagacc 360

ttgcaggaga ctcttgagcg tcagttggag atcgttgcat acattgagaa gaagaagaaa 420

agcaagcgtt tctttcgttg gtaggagcaa acagcagtga a 461

<210> 39740
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G3

<400> 39740

cggacgcgtg ggcggacgcg tgggcgaccc ccttcctctc tccctccgcc gccgctgcgc 60

acgcagggaa caagcgacat gggcgtctac acctttgcgt gccgcaacaa cggcggcgag 120

tggaccgcca agcagcactc cggcgagatc gaggctttcg ccgctacccc atacgagctg 180

cagcgccgcc tcgtcgctgc cgcctccgcg gacgactctg cctacggcgt ccagtcgtcc 240

ttctccatgg tcacccccag ctccgccgtg ttccaggtga tcgtcggtgc tgtcggtggt 300

ggtgcaatga tggtgagcgg acgtggcggc cggcgtgctg ctgcatctgg tggtgctgct 360

gccgaggctc ccaaggagga gaagaaagaa gaggagaatg aagagagcga cgactacatg 420

ggattctccc tgttcgacta g 441

<210> 39741
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G7

<400> 39741

atggattcta atcgtgtcca aagactagtt tttagggtct tgatggattg gggtgagaaa 60

gagcatggga tgtacaatat tgaccacatg gatgtacttc ctgaagtctt caagcctggt 120

cttatgtcaa agaagacccg tcaagaagca agcaatttat tttcatgcta ggatgctatt 180

ctgaaggacg agcctctatg gccagaggat atgtggtact gtcctgggtg caaggaacac 240

aggcaagcta gcaagaaact ggactcgagg aggttgcctg agatattggt agttc 295

<210> 39742
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G8

<400> 39742

cggtgaagga cttcaaccgc tggacctttg acggggtcca ggtgaacgat atatgggtga 60

acgactacct gtttgttact gatgagaatg acgcgacatt gctgccgcac ttcggggagc 120

gctactccat gatgcgggtc cccatggcgc agtgtaccat cgtctagcgc ctaaccaact 180

ctgttatgat gcacgggcgc aacaacggga agaatgtcat ggtcgaccgc atcatgaaac 240

acaccctgga gatcatacac ctgctcactg acgccaa 277

<210> 39743
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G9

<400> 39743

cggacgcgtg ggattggtgg cactaacatc agaaatgagg ccaatcagct tctgaaaggg 60

gtcaatctct tagttgcaac tccaggcagg cttctggatc atctgcgaaa tactaaaagt 120

ttcaactaca aacggctaca gtgccttata attgatgaag ctgatcgcat acttgagcaa 180

aattttgaag aggatatgaa acaaatattt aaacgactcc ctcaggatag gcaaacagtt 240

ctttttttctg ccacacagaa tcaaaaggtt gttgaatttg cgaattttac gtttgggcaa 300

aatgaagaaa gacaaaagaa acttggttat gttggagtcg atgattctaa attaaagcct 360

actgttgagg gcttgcagca aggttacttg gtcattccta agcagaaaag ggttc 415

<210> 39744
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H10

<400> 39744

ctcggcgccg gcgaggccgg gactggcatt gccgagctca ttgctctcga gatgtccaaa 60

catactgggt ctccgatcga agagtgccgc ccgaagatct ggctgatgga ctccaagggc 120

ctgatcgtgg tgtcacggaa ggactcgctg caggcgttca agaagccatg ggcgcacgag 180

cacgagcccg tggcaaccct gctggaggcc gtgcagtccc tgaagccgac ggtgctgatc 240

ggcacctcgg gcaagggc 258

<210> 39745
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H11

<400> 39745

ggtcatccaa ctcaccttat aatttagctg tgtctccatc tatactggta ttatacaagc 60

tcatcataat ctaaattgat aaaacaaact gttgaaagta tctctgcata aaaagaagtt 120

ttttggcctg cacaacatct ctttgctgtg gatgcaagat attgacagga agatctagga 180

aggaagcaaa tctgatagct tctgagacaa ctgtagttga tatttatggt acttgttcta 240

gatattgaaa caagacataa ataagtaaca tataattcag taaaatgtat tgccattgtg 300

gctttgcgtg gaacttagtt tgagttctta cttcgatgcc atcaagg 347

<210> 39746
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H12

<400> 39746

gcgtccgagc aaataaagag ggatcggatt ggaactcgat cggacggaag gtcctgcagg 60

ccggctggcc gggcgtccat cgaggaacca agctgctgct ggtgctaccg gacgacacca 120

accatgatac ggaggacgac agtgtgccta ggcctgctgc ttctactact ggcggcgtcg 180

actgcgacgg cacatttctc gatcggcgac gtggacgagt acttgaacag gcgcacgcag 240

gaagtccggc acaggaacca cggcggtgcg cacatcaatg acctcatgtc cagtgctgcg 300

cgctttcacg ccaacgtgga tgcacgcgcg aat 333

<210> 39747
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-054-Q1-K1-H3

<400> 39747

cccacgcgtc cgcggacgcg tgggagatcc catagtgcaa ctggcagcct gcatgtaccc 60

cagcttaacc caatagcagc tgatgtactt cgaaaggagc ctgaacatga aaccttcagt 120

aaaatcaata tcacagctgt tgagactcct tctcctgatg aaattgaggc atacaaagtt 180

cttcagaaat gccttgagct gcgtcagagg tacatattca gagaagaagt tgctccttgg 240

gaaaaagaga tcataactga tcctagtact ccaaagccta atccaaatcc gttcagttat 300

gaacatcagg cttaaaccga tcaccatttc gaaatggttg atggccgtat tcatgtgtac 360

cccaataaag attctaaaga aagactctat ccaggtgccg atgcaactac cttctttact 420

gaaatgcact acgtnctttg tggggtggct gctggggata 460

<210> 39748
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-F9

<400> 39748

cacacattat actccagaaa tactgtgtga acaggtatct tcggatccaa gtcggcatca 60

cagtagacca gagtaatacg aaggttgata cagcgccgaa ggtgtgagca ggaaagcttc 120

ggcgcgacaa caaaaagtga aaccgactta aagatgaaaa ggctatttag acctcgacag 180

attactatag aattattacc aagtgtaaag ggcatgaatg taattttgta tgggttgtgt 240

tccgtgccta taaatatgtg atctagtcct ttgtacttgt tatgctgact t 291

<210> 39749
<211> 367
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-054-Q1-K1-E12

<400> 39749

cggacgcgtg ggttgggaat aaatagttcg tgaatccctg aagcgtgcat atatatattc 60

ctgccgagat aaaggtaatg gagtcgtcac gcaggttcca gccggccgtc atcctgcttc 120

tcctgctcat tgtgtccacc gatatggcac aggcaaggga atgcgagaag tacagtgagc 180

gatttgttgg ggcatgcatg atcgcagaca actgcgccaa tgtgtgccgc ggtgagggct 240

tcttggccgg caggtgcagc accttccgcc gncgctgcat ctgcactagg cagtgctaaa 300

caagatcgct cgatcgctcg ccatgcatcg acaacctatt cttaataacg gtcattatct 360

cggtctt 367

<210> 39750
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E2

<400> 39750

gaacaaatac ctcgctacca acaatggcct ccaggtcctc catcctactt gcaacgtcga 60

tgctggctgc gctgtttgcg gttggtttgt gcaccacccc gctcaccttc caggttggca 120

agggatccaa gcctggccac ctgatcctca cccccaatgt tgcaaccata tccgacgtgg 180

agatcaaaga gcacgggggc gatgacttct cctttacgct caaggagggc ccgaccggca 240

cctggacgct cgacaccaag gccccgctca agtacccccc ttgcatccgc tttgctgtca 300

agtccggtgg ctaccgcatc gctgacgacg tcattcccgc tgatttcaaa gccggcacca 360

cctattagac cacacttagg atgtaatcaa gctttgatga tgaattatat ttcaaaagag 420

cttacctggt gctcatggta gcaagaacat attttttcta tgggtattt 469

<210> 39751
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E3

<400> 39751

gtcatggtct acataggtgt ttgctctctc gtagggtcca tgtcggtcat gagcgtgaaa 60

gctcttgtga tagcattgaa gctgaccttt tcaggaacga accagcttat ttacccacag 120

acatgggctt ttagtctggc tgtcatctca tgtatcatta cccaaatgaa ttacttgaac 180

aaggcacttg acacgtttaa tacagcagtt gtgtcaccca tttattatac catgttcaca 240

tctttaacta tcttggcacg tgtcatcatg gtcaagggca ctaaatagtg attgagccac 300

tgtttcaaat tcaccttcaa atggggactt ccttggattg catt 344

<210> 39752
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E5

<400> 39752

cggatgcgcg ccacgcgtac gctaaaaggc cactaaagaa agtgaggcgg aagctataag 60

gaaaatattg ggcatcgact ctgagaagaa gaaagaagag aggaagcaga aggagcgagg 120

agagaaggag cgagctagca gagcacaaaa catggcggca aactcgatcc gctgggtcat 180

ggggcccacc ggaacagtta tttcgattcc acacgcagta ggcctcccca gcatcttcga 240

ctccaagcca cacagctatc ctcctccacg ggagaaatgc gctgggccat cgtgcacgaa 300

cgattacaag tacaggcact ccaagctgaa cctccccctc tgcagcctca agtgctacaa 360

ggccgtccaa ggaaatgctt gatagggctc acggaacata atggtgggga ctggggagtt 420

tgtgctgact ccattggcat gccatctatg gctggaaat 459

<210> 39753
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E6

<400> 39753

ccgtacaaga gcctagaacg tccgcatgca cccacacgta cgcacataca acagcaagag 60

atgcgggagg ctgttgaatt acccttgact catcatgagt tgtgcaagca gattggtatt 120

gatgctgcaa gaggggtgct tatgtatggt actaccggta ctggcaagac catgcttgcc 180

aaagcagatg cacatcatac cactgctgct tttatcaggg tcgaaagttc atagttcgta 240

caaaagtact tgggtgaggg ccctagaatg gtgcatgacg agtgtcgatt ggccaaggac 300

aatgccccag caatcatttt cattgatgag gttgatgcta t 341

<210> 39754
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E7

<400> 39754

ggtcatagct aagcaggtct gacaggatgt cgtggcagac atacgtctat gagcacctga 60

tgtgcgagat cgagggccac cacctgacct ccgctgccat agtctggcac gacggcgccg 120

cttgggccca gagcaccgca ttcccacaga tgaagacaga ggagatgacc aacatcatga 180

atgacttcga cgagcccggg ttccttgccc cgaccggcct cttcctcggc cccaccaagt 240

acatggtcat ccaaggcgag cccggcgctg tcatccgcgg gaagaaggga tctggatgca 300

taactttga 309

<210> 39755
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-054-Q1-K1-E9

<400> 39755

cggacgcgtg ggcagcaacg cgtgcttggt aggaacccgt gccgaccgac tcttcctctg 60

cgggacggtc tcgagtttgg tcgggagatg ggtgacggga gctgctgcgt ctgcaaggag 120

gcgccgccca agtacaagtg cccttcttgt cgcacgccct attgctctgt cacatgcttt 180

aaaaagcaca aagaggaatc ttgtcaaaag atattgcatc aggaagaaat tagcaagtca 240

gcattgcagg aggaagttac actgcacacc acatgcactg cagaatctcc aaatacagcg 300

tgccctacaa aagctcttga agttgaggac ctaagctggc ttgttgacaa caatagacta 360

aggtccttag cggaactgaa agggatccaa gacgctctca nggatcctga actgcagaga 420

at 422

<210> 39756
<211> 255
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-054-Q1-K1-F10

<400> 39756

ctctcttgtt ggcttttggt ttgtaggata tcgctcttgc tgatctggct ccaacccacc 60

ccatcaggct cgggcttgct ctcaacttgt cagtgttcta ctacgagatc ctcaacttcc 120

ctgaccgtgc ttgcaagctt gcaaagcaag cctttgatga ggcaatctcc gagctagaca 180

gcctgagaga ggagtcctac agtgacagca ctctgatcat gcagctnctg cgtgacaact 240

ggacctatgg acttt 255

<210> 39757
<211> 349
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-054-Q1-K1-F11

<400> 39757

ggcatgtcgc ccaaccacgt cacgccgtgg gcgtggggta acgacggcgg catcaagtgc 60

gccatggaga cgcagcccat cagcaacaac cggacggggc gactggacat cggcacggat 120

tggcgcctgc acggcgtggc gcgcggcgtg ctggcgcgct acctccgccg cgtgccggtg 180

cacttcgtcg acatcacggg gctgtcggag ctgcgcaagg acgcgcacac ctncgtgcac 240

acgctgcggc aggggaagct gctcacaccg gagcagcagg ccgaccccaa gacctacgcc 300

gactgcatcc actggtgcct nccgggactc cccgacacct ggaaccact 349

<210> 39758
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-F12

<400> 39758

ggcacaggtg gcgatggcta tggcgttggc gttcttggtg agcggcgcct ggtgcggtcc 60

tcccaaggtc ccccctggca agaacatcac agccacctat ggcaaggact ggctggacgc 120

taaagcgaca tggtatggca agccgacggg tgccggtccc gatgacaacg gcggcggctg 180

cgggtacaag gacgtgaaca agcccccctt caatagcatg ggcgcgtgcg gcaacatccc 240

catcttcaag gatggtctgg gttgtgggtc ctgctttgag atcaagtgcg ataagcctgt 300

ggagtgctcc ggcaagcccg tggtggtgca cattacggac atgaactatg 350

<210> 39759
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-F2

<400> 39759

cgcatgtgct tctgtaattt tcgcaagaag cagtcaactg ctccctgata tggcgctagg 60

acattgtagt gaaccccgca catttgtgga gctcgacaac ctgccagagc gctagatgtt 120

tcgttgagaa gatagctcct ctagtttggc tttcctctcg ttcagtcact gctttaaacc 180

aaatttgata ccactcgttg aagtcaacaa ctgggatgtg gacatgtgaa accaaaaaaa 240

aaaaaaaata aaaaaaacaa acaaacaaaa aaataaaaat aaataataaa aaacaataaa 300

aaaaaaaaat ataacaaaat tttatattat aaaataaagg taaaaaccct aacaaaaaaa 360

aaaaaggggg gccttttaaa aggatccaat tt 392

<210> 39760
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-F4

<400> 39760

ggtaaatgaa tgctcggtta caacgtgcta aatcctttgc caatgctaat tctcaacagg 60

gagaacatca gtgaccggca tggtattcag gcataggcag tgatgttctc cctgttgaga 120

attagcattg gtaaatgaat gctcggttac aacgtgctaa atcctttgca tctggccaaa 180

tttgtaaata agcactgggt gatgcccatc agtaaacaca tgatgctact gctgttaaac 240

taaatgtggc aaatttcata atgctaggta ttgttctcgg t 281

<210> 39761
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-F5

<400> 39761

gttcggtccc caggcggcga ggaccctccc gcgccgactc gtccccgcag atcggcgggc 60

ggggcagatt cagattcggg tccgtggttc gctcggctag cctcgccggg gtcccaccgc 120

ggcggtcggg gagcatggtg ggaggggga ggcggggagg agcggccgcg gaggaggtga 180

agctcaacac cggcaacgtg ttcgcggcgc tcgagtccct caagaagaag aagaagggcg 240

acaagggcag ggcggccggg ccgtcctcca ggaagaagca cggcgcgggg gccgcgcagc 300

agcagcagga gccgccgcag aaggatgtct tctgggctcc cgcgccgctc accaccaagt 360

cctgggcaga cgtcggcgac gacgacgacc acgactact 399

<210> 39762
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-F7

<400> 39762

attcattaca aactgcttat ggccaattcg attctggaga cttctcaaaa gtcggggaat 60

acatcaacaa aattgtgctg gctatatctc caggttgctt aaaggctaag cttctcaagg 120

ctaaagcatt gctagcactg aaagactact gaagtgttat ttcagagacc ggattcattc 180

taaaggaaga tgaagacaac ttggatgcac tgctattacg tggtcgtgcc tactattacc 240

ttgctgatca tgatgtggcc tgcaggcact accagaaagg gcttcgtctt gatccagagc 300

atttctaatt gaagaaagcg tatttcggct taaaaaatct tttgaagaag accaatagtg 360

cataatataa tgcttgctag ggtaagcttc ctgtgtctgc tgaggactac a 411

<210> 39763
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C2

<400> 39763

aatgctgcaa ggcagctaca gccctgcgtt tcccctgaag catcagcaga aggacatgag 60

gttagcgctt gctctgggag atgagaacgc cgtcgccatg cccgtctcag cagctgccaa 120

tgaggcgttc aagaaggcga ggagcctggg gctgggagac caggattttt cggcggtcta 180

tgaggttgtg aagggcgcgg gtggttctgg atctggccag ccgtgataga aggaccattt 240

gtgagttgtg actgtgttag cccatttcca tgccgatttg caacatagcg acgtacgagt 300

acgtgtgtat tcaagatttg gaaccaggcc atacgttgca aaagataata ttaatc 356

<210> 39764
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C3

<400> 39764

cggactcgtg ggcgaagccc cacacacaca aaagcaaaaa gcatcatcac aataatggcc 60

cgcgcgtgtg tgttcctcgt ggtgctactg ctggccgccg tcgcggtggt gccgattgcg 120

ggggctgcgc gtgtggatgt cgtggagggc acgtccatag cgtccgccga cgcgcctgac 180

gcggcggctg acgcgcccgc tcccggtccc gactacgcct catccacaga ctcaccgtct 240

gaggcgccct acatgcagca gctcatacga ctagccgcgc acaacgcagt tattgtcatg 300

atctatctat caaataaaaa gatcatatga ctcggttgat tctatggaat aactaatagt 360

atatatgctg cgcccggatg atatataaag atatgcatca aacgcgtgag ggaaacgcat 420

ggaatgtgc 429

<210> 39765
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C6

<400> 39765

cggatgcgac ccacgcgtac gcttggagat cgtgacgtag aacctagaca ggcactcgca 60

agctgacaga accaagctcg gttggaccgc gtaaacagca ccagcagcgt acagatccat 120

agcagaacca tacaccagtt acctgacagc cacactttat actacacacc gatgttgatg 180

accgggtcag gaaccaggag gtgctggaca tctgctgtcg ctccatctac atcaggctgg 240

acacgtacaa caatctgaac agggacatga cgcagaacgc gttaaggctc gccggcttca 300

aggagct 307

<210> 39766
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C7

<400> 39766

ggaggcctct ctctccctct ccccagccac ccccgtagcg agagggaggg cggaagagga 60

tgagcgcgtc caggttcata aagtgcgtca cggtcgggga cggcgccgtc ggcaagacct 120

gcatgctcat ctcctacacc tccaacacct tccccaccga ctatgttccg acagtgtttg 180

ataacttcag tgccaacgtt gtggttgatg gtaacactgt caacctcggc ctctgggaca 240

ctgcaggtca agaggattac aacagactga gaccactgag ctatcgtgga gctgatgttt 300

ttcttctggc tttctcactg atcagtaagg ccagctatga gaatgtttcg aagaagtgga 360

tacctgaact gaagcattat gcacctggtg tgccaattat tctcgtaggg acaaagcttg 420

atcttcgaga cgacaagcag ttctttgtgg acca 454

<210> 39767
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C9

<400> 39767

ccgagaagag catagactcc ctccacgtcg atggctacgc cttcttcggc gtcgggatgg 60

gccccgggaa gtggtcgccg gaggtgagga agacggcaac ctgctggaca cggtgagccg 120

gcacacgatc caggtgtacc cgcggtcatg gacggcaatc atgctgacgt tcgacaacgc 180

gggcatgtgg agcgtgcatt ccaacatctg ggagcggtac tacctcggtg agcagttcta 240

catcagcgtc gtcttgccgg cgcgatcact gcgcgacgag tacaacatgc ccgacaacgc 300

ccttcgttgc ggcatggt 318

<210> 39768
<211> 505
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D1

<400> 39768

tacacggacc tgaatctccc ggatgcgacc acgcgtacgg ctgcaatgaa gcaactgaag 60

ttggagctga ttgcccataa atctcacatt gacatgttag gtagcaggtt ggagcaggtt 120

actaatgacg tgcattcgca gtataaaaat gagatccagg atttgaggga tgtggattct 180

gttgaacaag aggagaaaaa ggacattcac aggaagcttc agaatgtgga aaacgagttg 240

aggatcacga ggatgaagca ggcggagcag caaagggatt ctgtctcgga ccagcacgtg 300

gagacgctga agcataaggt catgaggctc cggaaggaga acgagttcct gaagaggacg 360

ctggcgagct ctgaagtctg aactggagtg cacatgaaaa ctgcaactgc tttccttcac 420

gccgtagttt tatctcataa ctgaggatgt agaaaaatcc actgctccaa atacacatat 480

gaccttcaga tgctttaaaa ctagc 505

<210> 39769
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D11

<400> 39769

gggaacatcg tccatccgag ctaagtaatt aggtcgaaaa tgacccgtgc cagcagcagt 60

agcagcagcc ggcgtgtgac gctggtactg ctcggtctcc gcctgctgct tctggttggt 120

gttgcgcagg cggtagtgga gttggtgcct gctgatgata atatcgccgc cgccgctgct 180

ggcacggcgg tggacgatgg cgagccgcct cagcagtgcg cgaccccggt gagcgtggag 240

gaggcgtgcc gcggcgcgtc cgagacgcac gccggcgtgg cctacgacca ctgcatggcg 300

tcgctgggcg ccgacccgcg cagcaaggag gccggcaaca agaacatgca cgggctggcg 360

gtgctggcca ccaggatggc catcgaccac gccgtcagca ccgagtccaa gatcggcgac 420

cttcttcgcg acgcgctgga caacc 445

<210> 39770
<211> 321
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-054-Q1-K1-D12

<400> 39770

gaccgacgcg ccggcagatc ccaagctcac cctagagggg gaagagggcg accgaaggcg 60

gcgatgggtt tcatcatgga cttcgcggag aatctgatcc tccgtctgat ggaggacccg 120

gacaagcgcg accaggttcg gcgggagcat gtctacaaga tgaaggagcg gtgcgagcgc 180

actaaggcgg cgtggagcct ccctctgcgc ccctacggct tctggacctt cgaccgcttc 240

aactcgcagc tctcctggga tccccagatc agccaggccg ncggccgtcg ggacccctac 300

gacgacctca tcgcacgcca c 321

<210> 39771
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D3

<400> 39771

tgctcacatc tttgcatcct tcaatgacac tttcattcat atcaccgatt tgtctgggag 60

ggaaactctg gttcggatca ccggtggcat gaaggtgaag gctgaccgtg acgagtcgtc 120

accttacgct gctatgcttg ctgctcaaga cgtcgcacag cgctgcaagg agcttggcat 180

tactgcactg cacattaagc ttcgtgccac cggaggcaac aagaccaaga cccccggacc 240

tggtgcccag tctgccctca gggcgcttgc tcgttctggg atgaaaatcg gacgcattga 300

ggatgttacc ccggtcccca cggacagcac tcgcagaaa 339

<210> 39772
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D4

<400> 39772

gtcagacata caatctatct caaatgacac tttcattcat atcaccgaat tgtctgggag 60

ggaaactgtg gttcggatca ccggtggcat gaaggtgtag gctgaccgtg acgagtcaac 120

accttacgct 130

<210> 39773
<211> 459
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D5

<400> 39773

gtcgaggctg agacactgaa ccaagtgaag catctgacaa cattgtcttt cactgaagta 60

gaggagttag gcaagacatc tagtgttgat gcaaggttac cttcaagctc tgatactgca 120

gttatcatgt atacaagcgg aagtactggt cttcccaagg gtgtaatgat cacacatggc 180

aacatggtgg ccacaactgc agcagtcatg acaatagtcc caaaacttgg catgaatgat 240

gtttatctgg cttaccttcc attggctcat gtctttgaac tagcaggaga gactgtcatg 300

ctagcttctg gtactgccat tggatatggt tcaacattga ctatgactga tacatcgaac 360

aagattaaga aggggacaaa aggagatgtt tctgtactga atcctactct tataatttca 420

gttcctgcaa ctttggatcg tatcagagat gcagtgttt 459

<210> 39774
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D9

<400> 39774

ggcaagagag gagggccggc gtcggcgtgc ctagctcgat cttgaaccat agctagccag 60

catggcgccc agcagcagca tagcagtact gctgctcctc gtcgtcgccg tcgtcctctc 120

caacgtcccc tcctcgggcg ccctggcctc ctcgtcgtcg tctctgctgc accagtcgtc 180

tccgtctgag agtgagactg agaccgacag tagcagcgga gaatcttcgt cgtcgtcgtc 240

gtcggaggag gaggaggccg gcgagaagga gaaggagaag gagcaggaga tggagaaggc 300

ggtcgcggcg gagaaggctg cccagcagga gctgctcaag tacgccaagg ggaaagggca 360

tcgtgtcacc gaccaacggc acggcgtggt acaagggcaa tcgccgggag ttcgtggacg 420

cccacaacga 430

<210> 39775
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E10

<400> 39775

cggacgcgtg ggcagcaacg cgtgcttggt aggaacccgt gccgaccgac tcttactctg 60

cgggacggtc tcgagtttga tcgggagatg gctgacggga gctgctgcgt ctgcaaggag 120

gcgccgtcca agtacaagtg cccttcttgt cgcacgccct attgctctgt cacatgctgt 180

aaaaagcaca gagaggaatc ttgtcaaaag atattgcatc atgaagaact tagcaaagga 240

gtattgcacg aggaagttac actgttcacc acatgctctg tagaatcttc agatt 295

<210> 39776
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C12

<400> 39776

actcgtctca ccctccctcc ctcacacaaa taataaggaa aggtcccgcc cttttcctcc 60

gacatgcaca agggggggagg ggaaaacacg tacattcacc cggcggcaat aatggcctcg 120

gttccggctc cggcgacgac gaccgccgcc gtcatcctat gcctatgcgt cgacctctcc 180

tgtgccgcgg ctgacgaccc gaacctcccc gactacgtca tccagggccg cgtgtactgc 240

gacacctgcc gcgccgggtt cgtgaccaac gtcaccgagt acatcgcggg cgccaaggtg 300

aggctggagt gcaagcactt cggcaccggc aagctcgagc gcgccatcga cggggtcacc 360

gacgcgaccg gcacctacac catc 384

<210> 39777
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A6

<400> 39777

atgttaaatc gttccataac cattttgata gtaatgcttc ttctttttgc gaaagaatat 60

agtttgggat atgacgggtc tataatgata ttatattact ctattgatct tttcaaagca 120

agcatgttct tccattctga atgttaatcg tgctcatcca tttgtattgt tggaccatcg 180

taagtatgtt tttccacaag gaacctttta cggtgtttag agtctgatta ttgtccttat 240

aatgcctttc ttaataagct gtaccaatgg cgcgtctcac attttgtaga actcgtggaa 300

attctcatgg agcaaagctc tatttgggat ctgatgtcga tgactaccaa ccccctttat 360

ccttggcttt acatacttta gtccatacta ttttctaaaa cattttacta tttgcg 416

<210> 39778
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-054-Q1-K1-A7

<400> 39778

cggacgcgtg ggcacggacc taagccagta caaggaccat ggtaattgga tcgagattct 60

acgtgtggat aacctggtca tcaccggcaa gggaaacctt gacgggcagg gcccagccgt 120

gtggagcaag aactcctgca ccaagaagta cgactgcaag atcctttcca actcgctggt 180

gatggacttc gtgaacaacg gggaggtgtc cggggtcacg ctgctcaact acaagttctt 240

ccacatgaac atgtaccggt gcaaggacat gctgatcaag gacgtgaccg tgacggcgcc 300

cggggacagc cccaacacgg atggcatcca catgggcgac tcatccggga tcacgatcac 360

caacaccgtc attggcgtcg gtgacgactg catctncatc gagcccggga cctccaaggt 420

gaaca 425

<210> 39779
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A8

<400> 39779

cacgaccgga acgcccggag cgacccacgc gtacgctgac aaaacggcac aaacccaagc 60

cgaaacaaag accaagagcc aaggaccggg aaaatacgac aggaaaacag gggcagcacc 120

cgagaacgaa accctcaccg gaacaggcca aaccgaagaa gcacgaacac cgaaaacaag 180

aaccacagca gaagaaaaca a 201

<210> 39780
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A9

<400> 39780

gagagacgca catctatctg tcaagcgacg ccatggcctc gatcagagtc gaaggctaac 60

acctggatgg cggcggctgc ctgaacggca tgatggaagg catacttcaa gatcatcctc 120

acctccgacc ccaagctgcc ttccatagtg ttcagcgtgc acgacgcgag cacccttac 180

cgcggtgctc aatggcgccg cgaaggatgt caatgactcg acccatacca gcgccatgat 240

caccaacgat ggaattgcca tcaacccctg acaaagagta cgcaacgt 288

<210> 39781
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-B11

<400> 39781

ctctggttct ggtttcctct ttttatgcta caggtttggt tagctaccat atcactcgct 60

atctacaagg ttagttttcc gcatcgagaa atattatgtg atattgattg tcgagttctt 120

ttttctgctt caaaaaattt agtacttgta ttcatagtaa catttgatgc attaatgtat 180

acatttttat tttcatatat aggtttttga tcatctcggc atgttaaaga agaagaaatg 240

catctagctg taaagaaaag gaaggcaaat atcatcttat gcaattattt gtgtgctgtc 300

ggcggcgcgc tatggctacc ggcaaagaac tacctgatcc ccatggacgg agctggaacc 360

taatgcctgg caaacacact ggtgaacaca gtcatgttaa tcattggga 409

<210> 39782
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-054-Q1-K1-B2

<400> 39782

atcctcgctg gggcgggagg cgcgtcgagc cagggttctg cctcccacgt gggccagtgg 60

cgcacttctt tctccagcat tcgagggagg agaggggttc accagccacg cgaaggaggc 120

gaacttcggc tacgcggggc cggccaggtg caggcgctga cagctgccgc gtgcctggca 180

cttggcctgg gtggccctgc cgtcgcctcc gacgttgcct tctgccgttt ggccagggca 240

tggctatccg tccaccacac gggcgacggt cacgccgtac gtgggtccgt cacatncacg 300

gcttctcccg cgccgtctgg cgtacgtggg gaccgtccaa gatgtcgtac gctgcgggag 360

tggcggcgac gttcttggat ggtct 385

<210> 39783
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-B3

<400> 39783

ggcgacgcca gaacacgacg agaagacaga ctgggtgaag atcacgccag agctgatgca 60

tcgacttcca gctgcgacga gtcgagtggg ggagcaagtc accaaccaca caaaggaggc 120

gaacatttgc tactcagggc cgtccaggag catgagcgga cagctgacgc gtgcctgaca 180

cttggcctgt gtggccctga cgtcgcctac gacgttcact tctgccgcat ggccagagca 240

tggctatccg tccaccacac gggctacggt cacgccgtac gtgggtacgc cacatacacg 300

gct 303

<210> 39784
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-B4

<400> 39784

tgttgaaaca gaacaaagct ttgcccgccg tgtcttagct atagtggact atgatgaaga 60

tggaactctt tccttatcag aatgctcaga cttgatgaaa gcttttggta ataaattagc 120

agttgcaaag attgaagagc ttttccgtca agcagataca aatagtgatg gcatagttga 180

catagatgaa ctggcagccc tactggctgc tcaacaagaa gaagaaccac ttataagtaa 240

ctgccctgtc tgtggtgaag atcttggaaa atatgataac ataaatgata tgatacatat 300

gacactttgc tttgatgagg gaactggtga tcagattatg actggaggga ttctaactga 360

ccaacaagca ttttaagggt ggatgttcaa gctcagtgaa tgggcaca 408

<210> 39785
<211> 489
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-B5

<400> 39785

tacacagagc catgacgtcg gatgcgacgc atacgtacgc caggaagacg actcgagtaa 60

aaaaggagcg ggcgaacggt ggccggacat cgacgacagc tatctgcggt gcgagacgcg 120

agaggcagca tgaggcacga gggacaggcg acgccggcga gcgacacccg aaagacttga 180

gcgtagaggc tgacgtgact gcacgagaca cgagcggtgg ctctagtgtc tactacagaa 240

actgacaacc accgaacggc gatggtggcg gcaaccgacc gcggcaacat ccaaagacga 300

tgatcttctc cgatctggcg tatctgggac gtccttcgac taagaccacc tacgatctgg 360

aggcttcaga tgcagtagcc gaaccggagg ccttagggtc gacatccaga gactgcctcc 420

tatcgaactg tgtttatgtc taccatgatc atgcgcaatg cctactattt acactattta 480

tgcattcta 489

<210> 39786
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-B7

<400> 39786

cggacgcgtg ggcgaacctg gagctgtcat ccgtggcaag aagggatccg ggggcatcac 60

tgtgaagaaa acagggcagt cactcatcat tggcatctac gacgagccca tgactcccgg 120

gcagtgcaac ctggtggtgg aaaggctggg cgactacctg ctcgaacagg ggatgtaaca 180

acaacccctt cccctggaat gcatgttgat gatgttgctg gttccaactt cgttttcagt 240

aataataaca acaaagcgaa gaccctccta cctaccctat ttgcttgagc ggctcttgtc 300

cgcgccacaa gatacctatt gttgcgctgg gaatattcag ttacgatgac ccgctttagt 360

tcagtttttt ttattgtggg gttgggtcga tcatttgagc tgtacgtgaa tcggatggac 420

aacagactcc aattactaag caaatatttt tcttct 456

<210> 39787
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C10

<400> 39787

agaagatttg attggtttcc ccaaatccgg tgactccatt cctgttgttc ttcacgtcga 60

ccccgggaac ctcgcagaag gctctagcga ccccgggcgc ccggcgctct gagggctgtg 120

ctgccggcgg cgagatccag gagctgcctg ccatggtgaa ggacagcgcc tactacgacg 180

tcctaggggt cagcgtcgac gcgtcctccg ccgagatcaa gaaggcgtat tacatcaagg 240

cgaagctggt gcatccggac aagaatcccg ggaaccctga cgccgcactc aagttccagg 300

aacttggaga ggcctatcaa gttcttagtg atcctgggaa aaaggaggct tatggatag 359

<210> 39788
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C11

<400> 39788

gacgacgatc ccttgggctt gggcaggacg acggagagct gggccctctc ggtgtccagc 60

ctggcccgga tggtgccggc gtcgcagctc ctgggcaccg ggaccacctt gaggaagcgc 120

gcccaccggc cgccgtcggc ccggcgctcc ccggtgacct tcagcctggg cgcgccgtcg 180

ggctggcgcc cgccggtggc cttcagcttc ttccgccggg cgctgtacac gaccttcaga 240

aacataaggc gcatgcagcc gcgcaggcga cgcgctctct ggtgcgacgt gcggtctcgc 300

cgtctcggca gtgttgcctt acctgacacg tcgacgacga gggtgtccgg ctgcttcgtg 360

ct 362

<210> 39789

<211> 114
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G7

<400> 39789

gctgctggta tccacgagac cacctacaac tccatcatga agtgcgacgt ggatattaag 60

aaagatctgt atggcgacat cgtcctctcc ggtggtacca ctatgttccc tggc 114

<210> 39790
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G8

<400> 39790

acggagatca ccctgagcga tggcacccgc gtgccctacg gcctgctggt ctggtccacg 60

ggcgtcggcc cgtcggagtg tcgtcaggtc cctgcacctt cccaagtccc cagcctggag 120

ggtcggcgtg gacgagtggt tccgcgtgcc cacggggccg gacgtgttcg cgctgggcaa 180

ctgcccgggt ttcctgaagg gaacc 205

<210> 39791
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G9

<400> 39791

gatccatctt gggcgggcgc cgcgcgtcga gggccagcca aagcttgcca tggcggccgt 60

gcggtccgac agggtccacg accaccaccg ccgctccgag gcgtcgtgtc cggcaacctc 120

cgcggccgtg gcggcggcga gggccgatga cgccctgcgc cagcgcccgc gggggctcgt 180

gcaggtccgg gagcgggacc agggcccgct gtcgacgggg caccagcacc tgcaccacca 240

tcaccaccag ctgcggcggt cggcggcgtt cccaccccgc cggccggggc cggggcgccg 300

tcctcctcag cgctgcgaaa gcgaccttaa catcatggag cac 343

<210> 39792

<211> 274
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-053-Q1-K1-H1

<400> 39792

gccgcgctct cgcagatgat ggtggcggag aagcccgcgc tggggttcca ggcgcacggg 60

gacggggacg acgagctgga gctggagcta gcgtcgccgg cgccgtcgcc ccggaagatg 120

cactcgctgg aattcgagca catcggctcg ctcgccgncg tggccgagtc gctcgcgccc 180

gggagcatgt ggcagagggc gctcaccagc gtgcgcgtcg tcatctttca tgccaagatc 240

aacgtgcctc ttccctttgg gccggtcggc atca 274

<210> 39793
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-H11

<400> 39793

gcttatatta caacgacggg aaaaaatatt tcttcactac cagaacctca gagtcttgaa 60

gctgttgtca gttcacttat atgtgaaaag cattcgagat tgctgcaaaa gcctttggat 120

cttgtttgta agcgcggaag catcactcag aaaacatcaa ataacgatgg tttaacaatc 180

atcccagagt atgattggaa gttattctct gaggagtgga gtgcgacgcc tggaaaaggt 240

atatctgctg aaatcgcttt tagcaaggac gctcaagata aaatgcacgg ttcctctgaa 300

gcaatgccga ttacggatgg aaatttggac cagtctcttt atggtgcaaa tgacgatttt 360

ggtgccagag agccctatgt cagaactgat ccttgaggtt gtg 403

<210> 39794
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-H2

<400> 39794

gattgccaag agcaatggcc tctaggtcat ccatcctgct cgtcatggtg gtgctagcta 60

cgctattcgt ggttggttcg tgcaccaccc cgctcacctt ccaggtcggc aagggctcca 120

agcccggcca cttggtcctc acccccaacg ttgccaccat ctctgacgtg gagatcaagg 180

agcacggtgg cgacgacttc tcctttacgc tcaaggaggg tccgactggc acttggacgc 240

ttgacaccaa gaccccgctc aagtaccccc tctgcatccg cttcgctgtc aagtccggtg 300

gctaccgcat cgccgacgac gtcatccccg ccaatttcaa ggccggcacc acctacaaga 360

ccaccctcag catctgatta gcctcttatg acgaataata tttcaagag 409

<210> 39795
<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-H3

<400> 39795

agttattgag ctcatgccaa aattgggaca acactttgtt gaagaaatga taaacccaag 60

catgtatgca agtcaatggt gttatcacag ttttctcata ttccttccca tttcatctaa 120

ctcttagagt ttgggatgtg tttctttatg agggtattaa ggttgtattc caagttggat 180

tggctctatt gagactctgt cacgatgatt tagtcaaatt acctttgag aaact 235

<210> 39796
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-H4

<400> 39796

cacccaccca cccactcgct tcagccgcct ccgccgcgcg taccaagcag gtggagacag 60

gatgccggct ggccacgggc tgcgctcgcg gacgcgcgac ctcttcgcgc gcccttccg 120

caagaagggc tacatcccgc tcaccaccta ccttcgcacc tacaagatcg gcgattacgt 180

cgatgtcaag gtgaacggcg ccgtccacaa ggggatgccg cacaagttct accacggccg 240

caccggtcgc gtctggaacg tcaccaagcg cgccatcggc gtcgaggtca acaagcaggt 300

caatgggcgc atcatcagga agcgtatcca tgtccgtgtg gagcatgtgc 350

<210> 39797
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-H6

<400> 39797

gccacgcgta cgggcgcttt tcctcgtcct cgatccattc cagtgccgct tgcaggtagg 60

atcgatctga tccatgcgag caccacgccc atggcgcgac caactcaccg acgaccacat 120

cgacgacttc aaggaggcct tcagcctctt cgacaaggac ggggatggct gcatgacgac 180

caaggagctg ggaactgtga tgcgatcact ggcgcaaaac cc 222

<210> 39798
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-H8

<400> 39798

gccgcagcat ggcatcatcg gccgcgctct tggtgctagc cctcgcgcta gtggcggcga 60

ccgccccaca ggtagcggag gcaaagaaga agagagcggc ggagagcggc gaggcggcgg 120

aggcgaagaa catccaggac gacttctgct cgacgctgtg cgagggcaag aaggggacgg 180

acctggtcgt gtgcaaggag tcctgcgctc tctcccagca gtccaacctg gtgctgtacg 240

gcaggatcca gtgcaagggc aagtgcaccg agcagaaggg catcacggcg ccggccatga 300

aggtctgcca agaggagtgc gacaaggcgt acgttgtgaa ggcggccgac gtcaccaaag 360

cctgcaacgt cacctgcgcc aaggagaaga acccgcgcct taacgagaac tgcaagaagt 420

cctggacccc 430

<210> 39799
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-H9

<400> 39799

ttcaaggatg gtctgggttg tgggtcctgc ttcgagatca agtgcgataa gcctgtggag 60

tggtccggca agcccgtggt ggtgcacatc acggacatga actatgagcc tatcgcggcg 120

taccacttcg atttagcagg cacggcgttc ggcgccatgg ccaagaaggg cgatgaggag 180

aagctgcgca aggcgggcat catcgacatg cagttccgaa gggttaagtg caagtacgac 240

ttcaaggtca ccttccacct tgaaaagggg tgcggtccca actacctggc actgctggtc 300

aagtacgtcc actgcgacgg tgacattgtt gcactggacg 340

<210> 39800
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A1

<400> 39800

aggagaacca gcagcctgca ataagagcca gccagagaaa ctaataaaac tctcgccgac 60

gccatccgag cgaacaagcc aaccgacccc gtccccaagg caatccgtcg ccgacgtacc 120

accaccaccg caggagcgag atggagatga agaggatcct cttcgccgtc ctcgtcgtca 180

tcgccgcctc ggccaccgca gtgctggcct ccaccgaggt cgccgccgcg ggcgccccaa 240

ctgcctccga gtcgttcgcc gaggctcccg ctggcgctgg cgctggcgct gccgctggcg 300

ccgtcgactc tgagccctac gacagcagcg gagcgcccgc cctcatcgac gcacccgcag 360

cgctactgtt ctacctactc gcctactaca ttcact 396

<210> 39801
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A2

<400> 39801

cactaatcca agacaaaaca tggctgtgaa tgtgagaacc atgtggtcgt cgatgcgggc 60

acaggttgcg atggttgtgg cgttggtgtt cttggtgagc ggcgcatggt gcggtcctcc 120

caaagtcccc ccaggcaaga acatcacggc cacctatggc aaggactggc tggacgctaa 180

agcgacatgg tatggcaagc cgacgggtgc cggtcccgac gataacggtg gcggctgcgg 240

gtacaaggac gtgaacaagc ccccttcaa tagcatgggc gcatgcggca acatccccat 300

cttcaaggat ggtctgggtt gtgggtcctg cttcgagatc aagtgcgata agcctgtgga 360

gtgcttcggc aagcccgtgg tggtgcacat tacggacatg aactattagc ctatcgcggc 420

gtaccacttc gatttaacaa gc 442

<210> 39802
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A3

<400> 39802

gttcggggtg ccgtagggct taggatcggc ggcgatggcg gcgaggctgg cacagctgcg 60

cgctcaggcg gtgcaggcgg cggagttcgc ctcgaagcac ggcggctcct actacaagga 120

gctcatggag aagaacaagc agtacgtcgt gcagcccccc accatcgaga aatgccagga 180

gctctccaag cagctcttct acacccgcct cgcaagccta ccaggtcggt atgagtcatt 240

ctggaaggag cttgatggtg tcaagcaggt atggaagaac aggaaggacc tcaaggttga 300

ggaccttggg attgcgactt tatttggagt tgagctttat gcatgggtct gcgtaggcga 360

gattgttggc agaggtttca ccttaaccgg ctataaagtc tacgtgattt ccagggattt 420

aag 423

<210> 39803
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A4

<400> 39803

cagtccgacg tgccggaggt ggtggaggcc gtcacgcaga agaagctgga actcatggac 60

gagttcatcc gcgacaggca cgcggcggac tcgcagcata ggctcttgcc gccggatccg 120

gagccgatgg caagcccaga gccaggcccc gtcgaagagg acaacgacga catgaacgcg 180

accaaggccc ttccagcgcc cgaggagcct gcggcggctg ccgcgcaaga ggaaagcaca 240

gtcgggaaag ccgagccaga tgcctccctc atcgtggacg acgacccggt cgaggaggag 300

gccgacttcc tgaacctcag cgctgacgcc atgt 334

<210> 39804
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E7

<400> 39804

gagtttgcct gcttctggtg ttctttatgg gtatcgcatt aatggtcctc aagggtggca 60

acaaggtcat agatttgatg acaccgtaat ctttttgaac c 101

<210> 39805
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E8

<400> 39805

aatttaaaac aggttgctgc ctataaactg ctggttctca ctaacacata catgtgcagt 60

taaatcactc cagtcgagcg acttattcag aagaatagac tgctatggag ctgtgagcta 120

tatacgagag agatcgccat ttatatttga tcaagtatct ggctttctct ttgaaagggg 180

gctaaatgca gctgcaggat ccaaggaagt agaaccacca tttggctggc ctagactacc 240

agctaccact gagtacgtca ccatgtcaaa gtttaatcga ctggttactc t 291

<210> 39806
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E9

<400> 39806

agcaaaccga gaggtgaacc agcagcctac aataaaagcc agcacattca aataaaaccg 60

agagacctca gccctcaggg aagccgaccg ccgacgtacc accgcgccaa cccgagagaa 120

agatggagat gatcaagagg atcctcatcg ccgcgctcct cgtagtcgcc gtctcggcca 180

ccgcagtgct ggccttcacc gaggccgccg tcgccggcgc cccagccgtc tccgagtcgt 240

cggcg 245

<210> 39807
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F1

<400> 39807

tgcttgactc ccacctagtg ccttcttcta ctgctgctga atcaaaagtc ttctacctga 60

gaataaaggg tgcctatcaa cgggtttctt gcggaattaa aaactggccc tgaaaggaag 120

gattctgttg aaagcacaat aatggcctac aaggttgttc aggacattgc cctggctgac 180

ctggcaccta cccatccgat aaggcttggg cttgctctta acttctcagt gttctattat 240

gagattctga actccccaga caaagcttgc aaccttgcaa agcaggcgtt tgatgaagct 300

atctcccagt tagacaccct tggggaggag tcatacaaag atagcactct gatcatgcag 360

ctcctttagg acaacttgac cctttg 386

<210> 39808
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F11

<400> 39808

ctcgttgtcc catctagccc atctgctatc agcgaggacg aaggcacaaa cccctcacgt 60

gcctcaaacc ctagccctcg ctctcccgct tgttcccgtc accgccatca tgggctcaga 120

tgcggacatg gaggactacg ggttcgagta ctctgacgaa gagccggagg agcaggatgt 180

cgacattgag aaccagtatt acaactccaa aggtttggtc gagacagacc cagagggtgc 240

acttgctggt tttgatcaag tggtcagtat ggagcctgaa aaggctgaat ggggatttaa 300

agctcttaaa caaactgtca agctttacta taagctgggg aaatacaaag aaatgatgga 360

tgcatataga gagatgttaa catacataaa atctgcggtc acccggaact acagcga 417

<210> 39809
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F12

<400> 39809

ctaccctcgt cgtcgtctca ctcaccccgc cttcacgcct ccctcaccaa ataaggtccc 60

gccctttcc gacattcaca ggggggacag gaaatcagcg gccatggcct cgattccggc 120

gacgaccttc gccgtcatct tatccgtcct cttctgtgcc gcggctggca ccgccgtcga 180

caacgacctc cccgactacg tcatccaggg ccgcgtctac tgcgacacct gccgcgccgg 240

gttcgtgacc aatgtcaccg agtacatcgc gggcgccaag gtgaggctgg agtgcaagca 300

cttcggcacc ggcaagctcg agcgctccat cgacggggtg accgacgcga acggcacgta 360

cacgatcg 368

<210> 39810
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F3

<400> 39810

cggacgcgtg gggaaaatta cttaagttat agtattaatt gtcagtaaaa aaatatttat 60

tttcaaatag ttaaaatgga gatataaata aattgaacaa ttttgcatag ataaaatttt 120

atgaagtgtt tgttatttac gtgcatttgg aatgtttttt gatttctcat tattgatttt 180

agatattgaa aattcacata actaatataa taattattag tctaaaaata aatattttac 240

ttataaat 248

<210> 39811
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F4

<400> 39811

ccgcagccgc cctagcaccc gcgacgagca ggatctgccc agttgctctt gcggtagttg 60

ccgcaactgt caccatgcag aacgaggagg gtaagactgt ggacctctat gtccccagga 120

agtgctcggc cacaaacagg atcatcactg ccaaggacca tgcctctgtc cagatcaaca 180

ttggccactt ggatgcgaat ggcctgtatg atggtcactt cacaacgttt gctctctctg 240

ggtttgtccg tgctcagggt gacgcagaca gcttcttgga caggcttggg caaaagaaga 300

aggctgatat aaagcagtag attttacatc tagtttacca agatttggac accgccttaa 360

ctatgctttg aaatcatgtc actatatgca atggtgtgat ttcagctggg acctta 416

<210> 39812
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F5

<400> 39812

gacaattctt gacttccaag cagtgcaaaa gctgctgacc tccccaaagt ttacattcgg 60

ttatgatgca ctccatggtg gtgcgggagc ttattctaaa cacatctttg tagaagagct 120

tggtgctgat gaaagctcac tgttgaattg tgtaccgaaa gatgactttg gacgtggtca 180

tgcggatcct aaccttacct atgcacaaga gttgcttgaa cacatgggtc ttggaaagtc 240

atactcaaat gttgag 256

<210> 39813
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F6

<400> 39813

cgagagagag agagagagag agaggtagac ggagatggag tgcctgcttg ggctgctcaa 60

ggtgctggtg gtgcgaggag tgaacctggc catttggaac cggttaaccc acagcagcga 120

cccctacgtc ttcttcggcc acggaaagca taaagggaat tcaagtttaa aataccgtac 180

gatcaaccca aattggaaca aggagttaac ct 212

<210> 39814
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F8

<400> 39814

aacgacagca agctgtaggc gaagctgccg accattgtct tcaggcacaa tgacggagcc 60

ttgactacat gctgggaccg gggcaatttc tccaattgag atgtttcagt ccgtctttac 120

acttgttgaa gatgaaatga tgggtgatcc tgcatatctt attgctgtca tcatagagtt 180

tctacggagt gtcttaaatg cttggcttaa ggcttcttac aacctttatg 230

<210> 39815
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F9

<400> 39815

gaaggcctcg tgccttatct tcctccctgg catggaggaa gtagctgctt cgcctatgag 60

cgttgccgcc gtagtgctgg acaacaaagg cgctgacgcg gactcctgca ctgccatcca 120

tagcgtaaca ctaagcctag acgagaaaga caatatcaat ggggatgttc aca 173

<210> 39816
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G1

<400> 39816

atttttctgg ccaattatct tatgcagtgg ccgaggcccc gaaagaggct cttcctcata 60

attgtcgacc tgattttggt gctgcttggt caacaacatt aaagttcaag gtcaatgaat 120

cgtacagctg cagatatatg ctaggtagta acaaggctga tattcactcg aacaagctat 180

tcaattgtac tgctgaggaa ccttcgactg gggagctttt caaaaggata cttatactgg 240

cactttcact gtgtatagtt taagtgacac tacctgcagt cgataagttg tgacgttcag 300

acatcccttg ctggtctatt ggttttcaga gatgtatgtg tca 343

<210> 39817
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G10

<400> 39817

gtacaatggc tggttgagcc ccatgatcct gggtgatttc acagctttcg ccgacttctg 60

cttcaagacg tacggcgacc gggtgaagaa ctggttcacc atcaacgagc cgaggatgat 120

ggcccagcat ggctacggcg acagcttctt gccctccgcc agatgcaccg gctgccagtt 180

cggcggcaac tccgccaccg agccgtacat cgtcggccac caccttcttc tcgcgcacgc 240

tgccgctgtc aagctgtacc gcagcaagtt caagggtcgt caggccggcc agatcggcat 300

tctgctggac tttgcgtggt tcgagccgct gaccaagttc gtggatgacg agta 354

<210> 39818
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G11

<400> 39818

caatgtgtgc cgcggtgagg gcttcttggc cggcaggtgc agcaccttcc gccgccggtg 60

catctgcact aggcagtgct aaacaagatc gctcgatcgc tcgccatgca tcgacaacct 120

attcttaata acgttcatta tctcgttctt atttatgacg aatgtcatgt atgttctggt 180

gactgtcatg tatattctga tgactgtcat gtatcttgtt catgtatgct caaggttcat 240

tatcttgttc atgtattaag tatgttatga ataactcaat atttattatt tcgttc 296

<210> 39819
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G2

<400> 39819

aaccctagcc gccatatctc acgatccact cgagcaccaa gccgagggaa ggtgaggagc 60

gatggcgcgc ggcgtggtgt cggcgaaggg cggcgcggtc gcgggcaaga agaaggggtc 120

ggtttccttc acgatcgact gcaccaagcc agtggaggac aagatcatgg aggtcgcctc 180

gctcgagaag ttcctgcagg agcgcatcaa ggtcgccggc ggcaaggctg gcaacctcgg 240

cgactccgtc accatc 256

<210> 39820
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G3

<400> 39820

gcaaacctgc agtcatctcc tccatcacca ccaaactcaa caacagccag ctcgcgaaaa 60

taatgaagag ccgcagcatg gcatcatcgg ccgcgctctt ggtgctagcc ctcgcgctag 120

tggcggccac cgccccacag gtagcggagg caaagaagaa gagagcggcg gagagcggcg 180

aggcggcgga ggcgaagaag atccaggacg acttctgctc gacgctgtgc gagggcaaga 240

aggggacgga cctggtcgtg tgcaaggagt cctgcgcgct ctcccagcag tccaacctgg 300

tgctgtacgg caggatccag tgcaagggca agtgcaccga gcagaagggc a 351

<210> 39821
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G4

<400> 39821

gatccatctt gggcgggcgc cgcgcgtcga gggccagcca aagcttgcca tggcggccgt 60

ccggtccgac agggtccagc accaccaccg ccgctccgag gcgtcgtgtc cggcaacctc 120

cgcggccgtg gcggcggcga gggccgatga cgccctgcgc cagcgcccgc gggggctcgt 180

gcacgtccgg gagcgggacc agggcccgct gtcgacgggg caccagcacc tgcaccacca 240

tcaccaccag ctgcggcggt cggcggcgtt cccaccccgt cgtccggggc cggtgcgccg 300

gccttctcag cgctgcgaaa gcgacctcaa ca 332

<210> 39822
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E6

<400> 39822

gcttgagctg agggggggagg gaaggagctg attgcttttg ctgaagaata atggtgtagt 60

cagctggggt gaggcgatgt gcgttgtcag ataaagctta gtcttgttga ctctactaat 120

ctgatatcaa ttggtaacca attggttaaa aaaaaaataa aaa 163

<210> 39823
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G5

<400> 39823

gtccagatcc gcggcatcac gctgctcaac agcaagttct tccacctcaa catctgcgag 60

tgcaagaacg tgctgggcga caaagtgacg gtcaaggccc ccggcgacag ccccaacacg 120

gacggcatcc acatcggcga cttcagcaac gtgaccatca gcagcaccac catcggcgtc 180

ggcgacgact gcatctacat cggacccggg agcaagatga tccgcatcca tggcgtcaag 240

tgcggcccag gccacggcat cagcgtcggc agcctgcggc gc 282

<210> 39824
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C7

<400> 39824

aagacaatgg tggaagggcc tccaaaccca aaccttgtga catagttgtt caaaatgggt 60

gcttcaaagc ctgaaaggga accaggcaat tcgtcaaaca aaagagcaac ggataaaatg 120

gacgactttg gccacaagga tagtttctct gaagtgtcct atgaatactg tgtaagggtg 180

gtcacgtggc tggagtgtga gggctatatt gagacaaact tcacgatgaa gtttcttaca 240

tggtttagct tacgtgccac cctgcaagag agaaagatag ttagcgtata tgtggatact 300

cttatcgagg accctgtcag tctc 324

<210> 39825
<211> 211

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C8

<400> 39825

ctctcggcct catcaggccc gctgccctcc accttcgcct ccgcctccgt ctccggcggg 60

cccctccgct ggatcgagta gaagaatcga gcgccgctac tggcgagggg ctagcggtcg 120

gcgcacagcg cggtatggcg agcggcagca gcaacgggga gccaagcacg gcaccgcatg 180

cgaaccggtg gtacgacctc cggctgggct c 211

<210> 39826
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C9

<400> 39826

gagaggatca gaacgatctg cacggacatc tgtcaagccc gagacactga catcgatgag 60

ctctccaccg cgatgatcag gtacaactgc cacttcatta agcacaacta cgcaatgctc 120

ttaagcgcca ggtacatccg gcttcaacac cacaacat 158

<210> 39827
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D1

<400> 39827

ggcgcccgtt caggatccac atcttcccga gcgagttctt ggttgacctc ttcctcttgg 60

gaccacctcc aaggctcttg gtgtagcttg ccactctcac caatcaagtt ttcatgtctg 120

atctcgacat tcagatccca actgccttcg atcccttcgc tgaggccaat gctggggact 180

ctggtgcggc agcagggtca aaggactacg tacacgtgcg cattcagcag cgtaatggtc 240

gcaagagcct gaccaccgtc cagggattga agaatgagtt cagctacagc aagatcctca 300

tagatctcaa gaaagagttc tgctgcaat 329

<210> 39828
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D10

<400> 39828

cctgagtgag agagcttcct cagtccatgg aggtgtcgtc gaggctccaa agcctcctca 60

gacccttcct actctgccgc tcccgcgccg cagggatgac cctccaaacc ctagctcttt 120

gctccccgcc gcctcctccg cgcatcccat cttccttcct cctccgaacg cgccgtctac 180

ctcctccctt tccccatggc ggcccatccc gtcttctttt ccacagcacc ttcgccttcg 240

tcttcccggc ccccgccccc gctccaggga gggaccacct taacttcaag gaacagggac 300

ccccgtccgc gcccctt 316

<210> 39829
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D11

<400> 39829

tttcgaattc cctcctcctc cgcctctccc gcagtccctc tcctcctttc cctcccccgt 60

cgcgatcgct ctgtgctccg cctccgtccg tcaaggcctg ctcttgcgcc gttcctcctc 120

gcccaatccg ccaggttctc cgcggtgtgt tcctgacgct gttgaggccc ggcgtgtgcg 180

ttgcatgcag gggatggcca cattcgagct ctaccggagg tccaccattg gcacctgcct 240

caccgagacg ctggacgagc tcgtctccag cggggccgtc agcccggagc tcgccatcca 300

ggtccttgtg cagttcgaca agtccatgac tg 332

<210> 39830
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D12

<400> 39830

gatgttctgt ccgggttgtc agaaattaag gtgggtgttt cttataccca gactgatgga 60

cagaagctgc aatccttccc tggggatctt gataccccttg agcaagtaca ggtcaactat 120

gaggttctgc ctgggtggca aagtgacatt tcttctgttc gaagatacga tgaacttccc 180

caagctgccc gcctttatgt ggagaggata gaagaacttg ttggtgttcc cgtgcactac 240

attggtgttg gacctggcaa agatgctctc atatacaagt aaaagcaact ttatttggtc 300

cttggttggg cggaaa 316

<210> 39831
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D2

<400> 39831

caaagtgcat gatgggaatg cgactggccg tggatccgtc cgccgccggg gcataaccgc 60

ggggccatag ccaaggccgc gctcgctgat gccctggtcg gggccacgcg accaagcgct 120

cgagttgcgc catggctgtt gcgcgcccgc gcgttcgccg gggtccacgc cagggccacc 180

gcgcctggat ggacgggcca ccgatgggag gtcgcgccgg gatctgcggg ctcgatcgcg 240

cg 242

<210> 39832
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D3

<400> 39832

aaagaagtcg cctaattctt tcgatcgaat taggcgcctt cttcgtccca cgctccgtct 60

ttatttgtaa tctgaacttg gcaggaccat ttaatggatt aatgaccggt ttggtaggct 120

ttttgaaggt ccggttgtta aggggcataa acctggctta ccgacacaca gagaggcaga 180

gacccgtatg tcgctataac acttggcaag aagacactta acacgagcgt gaaaaagata 240

tctgtgaacc ctatctggca cggggagcta actttgaccg tcacagatcc cactctagct 300

gtaaagctgg aggtgttcaa cgaggacacg ttcagcgggg accacccgat gggcgacgcg 360

aatatcgacg t 371

09/530,474 PCT/US98/23050

<210> 39833
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D4

<400> 39833

cggacgcgtc cgtccacgcg tccggcgagc ggcagcggct gcggcgatcg gagaagatgg 60

tgcgcaaggc gaaagttgag ttcgacgagc agccgccgga taacttcgac ccgaagaacc 120

cgtatgccga cccggtggcg atgctcgagt accgggaaca cctggtgcga tagaagtgga 180

tccagatcga gaccgccagg atcatccggg agcgccttcg ttggtgctac 230

<210> 39834
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D5

<400> 39834

agcagcaatg gcgctgcttg cctacgactt tcctcgcgtc atctcgtgct tcccaatggg 60

tataaataga actgggttgg tccccatgga cccatgattc tctcagacgc cactgcgcct 120

gttcgacgac gcgaagccag aaggcctcgt ggtcggagag gctgacgcat agagggacta 180

tgggaacggg ggtacccgcc tacaacggcg ctcggggcat aatactggga caggcgtgat 240

catagggget cactagaggc gcgtgcatcg gtccgtgggg ccaaacacgg tctgtgcgga 300

agctattgct ctctgggatc ccaaagaacc ggcgtccgat cattctgcgt tggcagcact 360

tttcctatca g 371

<210> 39835
<211> 102
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D6

<400> 39835

ctcgttctga tcgcgacgag tcgggctatg atccttccgt catcttggca taaccggggg 60

ggcattatca aagtggggct cgcttattcc ctcctcgggg cc 102

<210> 39836
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D7

<400> 39836

cacgctatga ctatgagaat gtcgatgctg gggctgctaa ggagctgatg gcaaacctag 60

taagcatgca gtcatgactt tctgatgtta acaagttgat caaggagatc cggtctgatg 120

tttctgaagt agttgcagct gacgagtttg agtacaagga tccagttgat ggctctgtgt 180

ccaagcacca gggcatccga tacctcttcg gagatggttc acgactggtg ttccgtctat 240

ccggaaccgg ttctgttggt gccaccatcc gtgtctacat cgagcaatac gagaaggatt 300

ccttcaagac cggcagggat tcacaggagg cccttgctcc actggttgat gttgcgctca 360

agctcttcaa gatgcaagag tacactggcc gctctgcccc cacccgtatc acataaattt 420

t 421

<210> 39837
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D9

<400> 39837

cgaagttgcc tttgccgtcc cttgcggagt tggcagcaca gctactggtg tacttcctgg 60

ttgaggacta cctcaattac tggatccaca ggtttctcca ctgtgagtgg gggtaccaga 120

atatccaccg ggttcaccat gagttcactg cgccaatagg attcgcagct ccatatgcac 180

actgggctta ggtgctgata ctctgcatcc cctacttcgg tgggccagtc attgttgcag 240

gccacatgat cacattctgg ctctggatta tacttcctca agtggaggct atcgagacac 300

at 302

<210> 39838
<211> 427

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-053-Q1-K1-E1

<400> 39838

gaagatgctt aatgatggag ctgttgagta tgaggatggt acacctgcaa ctgaagccca 60

gatgggtaag gatgtcgtat cattcctttc gtgggcagct gagcctgaga tggaagagag 120

aaagctgatg ggagtgaaat ggatctttct actatcacta gcgcttctcc aagctgccta 180

ctaccgccgc atgaggtggt cagtcttgaa gtcccgaaag ctggtcctgg atgtcgtcaa 240

ctaaggacta tcattaccct ttttttattg aaatatgttg agccgttaag gagcattcaa 300

aataatgagt tggtggtgta caattttgcc actggggcta ggttccatgc ctagaaatta 360

ttntgctntc tttactctgc tgagctgcaa aagcatttac caagggagta catttcacgg 420

gtttttt 427

<210> 39839
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E11

<400> 39839

ctggcgacca cggacctaag ccagtacaag gatcatggta attggatcga gattctacgc 60

gtggacaacc ttgtcatcac cggcaaggga aagctcgacg ggcaggggcc agccgtgtgg 120

agcaagaact cctgcgtcaa gaagtacgac tgcaagatcc ttcccaactc gctggtgatg 180

gacttcgtga acaacgggga ggtgtccggg atcacgctgc tcaactccaa gttcttccac 240

atgaacatgt acaagtgcaa ggacatgctg atcaatgacg tcaatgtgac ggcgcccggt 300

gacagcccca acacggacgg cattcacatg ggcgactcgt tcggggtcac ca 352

<210> 39840
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E12

<400> 39840

aaggaggcgg gccccaacat ctccgtcaag ggctacgacg tgatcgagga gatcaagacg 60

gagctggaga aggagtgccc caacgtggtg tcgtgcgcgg acatcatctc ggtgagcgcc 120

cgcgactcgg tgaagctgtc gggagggccc gaatacgcgg tgctcctggg gcggcgcgac 180

tcgctcgtgt ccaaccgcga ggacgccgac aacctgccgg gcccggacat cgcggtgccc 240

aagctcatcg acgagttcga caagcagggc ttcaacacgg aggagatgat cgcgatgctg 300

ggcggcggcc acagcatcgg cgtctgcagg tgcttcttca tcgagaccga cgccgcgccc 360

atcgacgagg cgttcaagaa gaagatcagc ga 392

<210> 39841
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E2

<400> 39841

gcagccgccc ctgtccaagg agttcaccga cgagagtcag ccggcggagc tggtgcagct 60

gaaccagcag agcgagtacg ctccaggcct ggaggacacc ctcatcctga ccatgaaggg 120

catcgccgcc ggcatgcaga acaccggcta ggccaagatc ttcggtgtgc aaataacctg 180

tctcccatga gacggtggac gatatgtgta ggcctgtgag cagttagtac actcggcgcc 240

ccagtgtgtt ctgggaggga atttttcaat gtgcagagcc ctttctcttt gtgtgccttg 300

gctgtagatg cccaggggga gcttaatggc ttgtgaagcc ctgatgcaaa ataaaagacg 360

aaactatggt ttttggttaa ct 382

<210> 39842
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E3

<400> 39842

gcatccacac aggatgggtg ctatcgtaaa accacatgac agtgaaggca aaccagagcc 60

gcaacatgcc gggcaaggtc aggcatcaag caacccatct caaggggggcg gctatcctgc 120

acaaccgcat tactaccatg gcaggattca accttacttt caaccccaac aaccatacgg 180

gggttcaatc cttcaacggg ccatgcctta ccaacaaca 219

<210> 39843
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E4

<400> 39843

cgccgagacc cgggcccggg cgctgtggat caccttcgcg cgcgacatgg tgatcgagcg 60

ctgccaggag ctcatcgtga gcagcgacaa gaccatcgac gggcgcggag cgcacgtgca 120

catcgtgggc gcgcagatca cgctgcagaa cgtgcgcaac gtgatccttc acaacctgca 180

cgtgcacgac gccgctgcgc acggcggcgg cgcgatccgg gactcgcagc accactgggg 240

cgtgcgcggc gagagcgacg gcgacggcgt ctacgtgatg ggggccagcg atatctggat 300

cgaccacctg tccatgagc 319

<210> 39844
<211> 105
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E5

<400> 39844

attagggaaa agatcaattc aatgacagcc ggtgattact ttgagaagta cccgggactt 60

aagaagaact ttgttgatta aatacgtaac gattactggg gatat 105

<210> 39845
<211> 116
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-A4

<400> 39845

acggcgccca tgatacccgt gcgcatggtg gcgctccctc gcttttgtgt tgtccgctgg 60

ccacgagcca tacttcgccg gtgtgtcaga cggcttttgc caccgattaa ccctcc 116

<210> 39846
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-A5

<400> 39846

tcgagcttca cgacgacggt cacattgacc ttactgtcat tggcccacac cttgaggcag 60

gtcagcgccc ccagtatagg gtgccaccga acgtgtggtt tgggtcgttc cccacactag 120

acgtcgagtc gttcgcatct gatggcagcg ttcttgtcaa gtctcggaag agggaccctg 180

agctgcatta ctcccttgtt ggctgcacct gtgcccctgg cttccagtac gaggattttg 240

aaatggccaa atttgaggac gtgagatcca tcgctcccaa ggctgaacct ttcctcaagt 300

ttcttattcc ctctaccgat taactccaga gcagccttag atgattgtgg atggggtctc 360

agcgactttc tatactgcat act 383

<210> 39847
<211> 230
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-053-Q1-K1-A8

<400> 39847

ggaaactgca cttggtgttt ttttctggat cgacttgtat tatcaagcgg tcttggaaga 60

atgctactag ttcatagtgg gcacttncag tagctatgca tcctaagttt caagtagatt 120

ctgaagtagt tgaatccgtt ggccctttg gtccaccatt tcgaagcgga tgattttgga 180

atctggaacc tttgaatgtt tgccaaaatt ccgtttatgt ccttaactta 230

<210> 39848
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B10

<400> 39848

ctcgcttcag ccgcctccgc cgcgcgtacc aagcaggtgg agacaggatg ccggctgggc 60

acggcctgcg ctcgcggacg cgcgacctct tcgcgcgccc cttccgcaag aagggctaca 120

tcccgctcac cacctacctc cgcacctaca agatcggcga ttacgtcgat gtcaaggtga 180

acggcgccgt ccacaagggg atgccgcaca agttctacca cggccgcacc ggtcgcgtct 240

ggaacgtcac caagcgcgcc atcggcgtcg aggtcaacaa gcaggtcaat gggcgcatca 300

tcaggaagcg tatccatgtc cgtgtggagc atgtgcagcc gtcccgctgc acagaaaagt 360

tccgcc 366

<210> 39849
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B11

<400> 39849

agaaaatagg ttattcattc gtccttctat tatctttgcc tttgtcttct tttctaagag 60

ttcactactt ctgcggggtg tcacagtctt aagatcatgg tgtttttatg tctcaaacat 120

ggtcgcaatt gtgacattag gtagatggga gatttttgac tgagttttcg tgttttgtga 180

gcgaagtcag ggtaggaaat gatgtccgag agtgaagagc atggctcgct cctagacaag 240

atcaacgaca agatcaacga gaagatccat gagtataagc actcgtcgtc gtcctcctcc 300

tcttcggact cagacgatga caagaagccc aagaagtcta agaagaagaa gctttttgga 360

agaaaacatc cattgcatca tg 382

<210> 39850
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B12

<400> 39850

actatatatt gtattcctat taatctggtt atcgcatgcg tggccagccg gtgacgacgt 60

acgtatagac tcgctcagcg cctgagctga acgccacgtc accccggcgc atgcatacat 120

gcatgcatgc atggttcatt catttcaagg ggcttcgctt caagaagtgt ggagtgacta 180

cattatgcca gagctcatat actctgaaaa tactcgagca ggcaggcatg aaaggctgca 240

atgcttgcag tgtaccgatg gagaacagac taaaattgag caagaaagat gagtcaccgc 300

ctgttgacaa gacaaaatac agaagcatta ttggaagcct gaggtatcta gtgaacacaa 360

ggccggatat agcctttgct agtgggattg tagcaaattc atggaagatc caagagcaaa 420

aca 423

<210> 39851
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B2

<400> 39851

cggacgcgtg gggaaccagc agcctccaat aagagccagc cagagaaact aataaaactg 60

tcggcgtcgt catccgagcg aacagagcca accgaccccg ttcccaaggc aatccgtcgt 120

cgacgtacca ccaccaccgc aagagcgaga tggatatgaa aaggatcctc ttcggcgtac 180

tcgtcgt 187

<210> 39852
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B3

<400> 39852

atcgatcacg acaagatggc gtgcacagac aatgcgatga gagccttgtt cctcctggtc 60

ctcttctgca tcgtgcatgg ggagaaggaa gagtcaaagg gcatcgatgc gaaagcgtcc 120

gggcctggtg ggtccttcga catcaccaag ttgggcgcct tcggcaatgg caagacagac 180

agcacgaagg ctgtgcagga ggcatgggca tcggcgtgcg gcggcactgg gaagcagaca 240

atcctcatac ccaagggcga cttccttgtc ggacaactca acttcacaag cccttgcaag 300

ggcgacgtga ccattcaagt ggatggcaat ctgctggcga ccacggacct aagccagtac 360

aaggaacatg gtaattggat cgag 384

<210> 39853
<211> 127

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B4

<400> 39853

tcagcagcta gcgatggctg gaaccccggc cacctgctca tcgggcctgc cggttgcctc 60

gggggccttg gcccgccggc cggggtttcg agccggggaa cccccgccgt tgccgacaat 120

ttcatta 127

<210> 39854
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B5

<400> 39854

tgtacacatg tgagaactgg gtacagaatg tacggatctg gcaggccatc gatcgcgagg 60

tctggatagc actgagcgag gatgcaactt gataaggtaa tgggctcaag tacgtcgtac 120

ttggtgattg agtcgatctc aatactcatc accgttactc tgatagcctt tgccaatgcc 180

tacatagcag acttggacat ggcaacgctg tacgctgaca cacttgcaca tactatgtga 240

ccatagcctt 250

<210> 39855
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B6

<400> 39855

tgatgcagct acttccaaag aagatgggcc agtagcatca tcccttaatc gaaccgagcg 60

ttggcttctc tctcactccg aacatctcaa cttcttctct atcttgattc ttgcttcggt 120

tccaaatcca ctctttgacc ttgctggtat tatgtgtggg caatttggtg tgcctttctg 180

ggagttcttg tttgctactt tgattgggaa agccatcatc aagactcata ttcagacact 240

atttatcgtg tccctgtgca acaatcagct cttgtatctt attgaaaagg agtta 295

<210> 39856
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B7

<400> 39856

gagaaattga cgctacatat acagattgct ggaaaaatga acaggtgtat cagggagtat 60

gggctacgtg atattgggcg attggagcat gatttggctt ttggagatgc gggagcgaac 120

gaagtcatca ctatgctcag gtcaaagcag gatatgagcc cagaaaacaa aatgaggttg 180

ctaattatat atgcaatgga ttatccaaag aagtttgaag gtgacaaagg gaaaaagtcg 240

atgcacttag cgaagcttcc acatgatgat atggatatat taaatggctt aggatacttg 300

aatggttcaa atacaaaaaa atca 324

<210> 39857
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C1

<400> 39857

gcggaccggc aggtgcacct ggtccccagg gcgtcgaggg actatcgggc aatgaggacg 60

acgacgatga ctccaccaac gtaaggccaa gcacgtcggt ccgattgcat ttggaacaag 120

atatgaaaga aaagtgagag caatgttgtt taaaaccaaa aatccataat aatgtgtggt 180

catccgtgat atgttcttgc tctccctctt tttctttctg tttgatttcg atgtgttatc 240

atgttcttag cctctaattg gatcaattct tgatatcaaa gactccaaaa ttatcggtt 299

<210> 39858
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C10

<400> 39858

cgaccagcga cggcaagacg gactgcacaa aggcagtcca ggacgcgtgg acgtcagcgt 60

gcgaagcgac cggaagcgcc acggtggtga tccccaaggg cgactacctg gtcggccctc 120

tcaacttcac tgggccatgc aaggggagca acatcgccat ccagctggat ggcaacctgc 180

tgggatcaaa cgacctggac aagtacacgg cgagctggat cgaattgtct cacgttaaca 240

acatcgggat caccggctcg ggcacgctgg acggccaggg gaccgccgtt tatagcaaga 300

gcaagaccga caacgtgaag gcgatgccca acacactggt gctgtttcac gtgatcaacg 360

ccactgtcgt cggaatcaaa ctacttaact tcaagttctt tcacattaac attgacaact 420

t 421

<210> 39859
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C2

<400> 39859

acaacaagct cgtgcagaag agttttgctc gactttacta caatgacttc atgcgcaact 60

gcagctatgt tgatgatgat gctaaagaga agctccagtc cttttcaaat ttgactggtg 120

aagagagcta ccagagtcgc gacttggaaa aggcctcaca acaggtcgca aagcacctg 179

<210> 39860
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-A3

<400> 39860

gcatgccttc atgaacactt cgcctgaggc actcaagagg aagaagggga tgggtctgac 60

tgatgagaac caggaagccg tcgacctggc ctggtctcgc ttctcttctt ggatgggccg 120

gttcctcgga tctgcttgat tatgtgccgc gtgatgatgt gtggagtcag gtcccatgaa 180

taaaatagaa taaaataaaa tgttcagatt caggaaccat gcaaatggac tgggctgtac 240

ggttctctgg atttgcttgt ccttctggtt atagttatct acctcagtgt ggtttccttа 300

ttttctgtgg atggatgcat attgtggaat agccgtcaat ggcttttgac agtaagcaac 360

gacatggc 368

<210> 39861
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C3

<400> 39861

cgtcgtcgtc tcactcaccc cgccttcacg cctccctcac caaataaggt cccgccctgt 60

tccgacattc acaggggga caggaaatca gcggccatgg cctcgattcc ggcgacgacc 120

ttcgccgtca tcttatccgt cctcttctgt gccgcggctg gcaccgccgt cgacaacgac 180

ctccccgact acgtcatcca gggccgcgtc tactgcgaca cctgccgcgc cgggttcgtg 240

accaatgtca ccgagtacat cgcgggcgcc aaggtgaggc tggagtgcaa gcacttcggc 300

accggcaagc tcgagcgctc catcgacggg gtgaccgacg cgaacggcac gtacacgatc 360

gagctcaagg acagccacga ggaggacatc tgcgaggtgg tcttggtgga gagcccgcgc 420

aaggact 427

<210> 39862
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-052-Q1-K1-F7

<400> 39862

gggcgcgtcg tggtcctcaa cacccagaac ctgccgctcg tcaaggaggt cgggctcggt 60

gctgaccttg tcaggatcga cgcccactcc atgtgctcgc ccggcttctc ctgcgactcc 120

gcctaccagg tcacctacat cgtgcgcggc agtggccgcg tccaggttgt tgggatcgac 180

ggcacgcgag tgctcgagac ccgcgccgag ggaggctgcc tcttcatcgt gccaaggttc 240

ttcgttgtct ccaagatcgc cgacgaaacc ggcatggagt ggttctccat catcaccacc 300

cccaacccaa tctttagcca cttggcgggc cggacatcgg tgtggaggca atatctncgc 360

ggtctntgca gtcgtcgtaa caccacgccg gagatggag 399

<210> 39863
<211> 455
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-052-Q1-K1-F8

<400> 39863

cgcgcgaatc gccgcggacc tcgccggagg cggcgacgag ctcggatccc ggcgatctag 60

tcgccggagg cggtcccgat ggctcggcgg tcgtcttcct cgtcgtcggg gacctggcgg 120

tacctgaacc cggcgtacta cctcaagcgg cccaagcgcc tggcgctcct cttcttcgtc 180

ttcgtcgcgg ccaccttcgc cttctgggac cgccagtcgc tcgtcagcga gtacgagtct 240

gagatttccc gattagaaga tgatataaat cggttgcatg accagctaag aaaggctgga 300

gttaatctgg atgaaaatcc agtagtaagc aataagaatt ccagaaaaga tcttgtagta 360

gaaattgatc ctgtcaataa tgaaagacgg gaaaaagtta aagaggcaat gctccatgct 420

nggaattctt atgttaagta tgccttggga atgga 455

<210> 39864
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-F9

<400> 39864

cgcgcgaatc gccgcggacc tcgccggagg cggcgacgag ctcggatccc ggcgatctag 60

tcgccggagg cggtcccgat ggctcggcgg tcgtcttcct cgtcgtcggg gacctggcgg 120

tacctgaacc cggcgtacta cctcaagcgg cccaagcgcc tggcgctcct cttcttcgtc 180

ttcgtcgcgg ccaccttcgc cttctgggac cgccagtcgc tcgtcagcga gtacgagtct 240

gagatttccc gattagaaga tgatataaat cggttgcatg accagctaag aaaggctgga 300

gttaatctgg atgaaaatcc agtagtagc aataagaatt ccagaaaaga tcttggagta 360

gaaattgatc ctgtcaataa ttgaaagacg ggaaaaagtt aaagaagcaa tgcttcatgc 420

ttggaattct tatgttaagt atggctgggg gaatg 455

<210> 39865
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-G11

<400> 39865

cggacgcgtg ggcgcgaagg cacctagcag ccgccactcg ccgaactgag gaacacgcct 60

ggcgacggga tacagcagca gcgcgccccc ctatccccga cgcgacggcg ccctgcagct 120

gcagataaac ctgttccaat gggcaaacaa aaagagggtg tggacaaaag aactgctagg 180

aagatgatcc gatctacgga aggctgtgca aagagcatta ctttcgagag gaacaacaaa 240

tcagacgatg tgcagcttca cgatctgccg aatgacatcc taggtagcat actatcacgg 300

ttgacattca gagaatcctc acagatgggc cttgtttctc atacctggcg gcggctgtgg 360

agaagctgtt gccggaaact ggtcttcacc agtgccacca tgttccaacc cggaaatagg 420

agcatcaaac atacaaggga ccaacttgcc atgaga 456

<210> 39866
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-G12

<400> 39866

cggacgcgtg ggcgctaagg cacctatcat tcgacactcg ccgaactgag gaacacgcgc 60

tggcgacggg atacagcagc atctctcccc tctatccccg acgcgacggc gccctgcagc 120

tgcagataaa cctgttccaa tgggcaaaca aaaagagggt gtggacaaaa gaactgctag 180

gaagatgatc cgatctacgg aaggctgtgc aaagagcatt actttcgaga ggaacaacaa 240

atcagacgat gtgcagcttc acgatctgcc gaatgacatc ctaggtagca tactatcacg 300

gttgacattc agagaattct cacagatcgg ccttgtttct catacctggc ggcggctggg 360

gagaagctgt tgcctga 377

<210> 39867
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-G5

<400> 39867

ctgcagttcc cggcgctgat gcggcagtgg ctatcgccgc cgctgatccc ggcgtacaca 60

ctgctccggg tgccggccac ctcccaggag gacgagcttc tcctctccat ggccgagtcc 120

gacctcgagg ataagctgaa cgagatccga aagaccaaca gccacctggt aatcatcggg 180

aagcccacgg gcgacaccaa ggaggagtac gacgctgagg tggaggacga cgatgcagac 240

aacgtcgagg agtctgacgg cgacgacttc taccaggaga ccggttgacc cacgtggctc 300

ccccgtgctt cgtcggcgtc cttgagcgtc gtcatccccg ctgtccagtc tgtatttcgc 360

aatccctgag ttgttccttc tatctagata cgctgttacc ctattct 407

<210> 39868
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-G6

<400> 39868

gtcgttctct cttcctggtc caagtgatct tgccaagtta cgagcagcga gcagagatca 60

gagcatccat cggcaatgtc gaacatcggg cagtccttcc aggccggcaa ggctgaggcc 120

cagggcgagt accaggcgga gcacgcggcg cagtgcgtca aggacaccgc cgcagccgcg 180

gccgacagtg cgcagctgca gcagcaccgc cccaccggca ccgttgagca ggtggcgcag 240

acgggccagg gcgtggcggc aggcgtcaag gacaccgtgg cgggcgcggc ggttggcgtc 300

acaaacaccg tggcgggcgt ggcggcgggc gtcacgaaca cggtcacggg cgccgtggcg 360

ggcgtcacga acacagtgac cggcgcggcg gcgggtgtca aggacaccgt gaccggcggc 420

cactgatcga cgacccaaga atgcttcatg cat 453

<210> 39869
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-H1

<400> 39869

aactcgtcgc ttccgctcca caggatcctc tgcgccaccc acaaccgtgt gaccgtccgt 60

gctgccggcg acccctatcc gccgacccgt ccgtcccacc acaccccacc gccgctcgca 120

gctatgtcgc cgtcggagcc gacgcgggag gagagcgtgt acatggccaa gctggcagag 180

caggcggagc ggtacgagga gatggtcgag ttcatggagc gcgtcgcgcg ctccgccggc 240

ggcgccggcg gaggggagga gctctccgtg gaggagcgca acctgctgtc cgtcgcctac 300

aagaacgtca tcggcgcccg cagggcctcg tggcggatca tctcctccat cgagcagaag 360

gaggagggcc gcgggaacga ggcgcacgcc 390

<210> 39870
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-H2

<400> 39870

cccacgcgtc cggtgaagtg gagttgaagc gtgactatgc attcattgaa ttcagtgacc 60

cccgtgatgc tgatgatgcg cagtacaacc tagatggcag ggaagtcgat ggaagccgta 120

ttattgttga atttgctaaa ggagttcctc gtggttctgg tggttcacgt gagtacatgg 180

gaagaggacc tccaccagga acaggtcgtt gttttaactg tggaatggat ggtcactggg 240

caagggactg caaggctggt gactggaaga acaaatgc 278

<210> 39871
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-H4

<400> 39871

ccggaacgaa cgacgcagcc caacccgttc ccaccaaacc agcggcacca cccatggctt 60

cggcggcggc gagatccggt ctccggtcgc tggcggtgcg cgccgccccg ttgaggcgcc 120

gcatgtcctc ctccgtccac gacgacgcct atgagacggc caagtgggag aagatcacct 180

acgccgggat cgtgacctgc accctcctgg cggcgtacaa cctgtccaag ggccaccccc 240

acttcgatga gccggcggcg tacccctatc ttcacatccg caacaaggag ttcccatggg 300

gccctgatgg cttggttgag acgaaggacc accactgagc cctgattagc acac 354

09/530,450 PCT/US98/23650

<210> 39872
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-H8

<400> 39872

tgggtgttaa gggagctgct ctaccaccca cagggaaatc tcaagttgaa actcggaaat 60

gctttgctaa tgctacagca gaagtgattt ctgctagtac aaacgagatc agtgagccag 120

ataatgcagc tgccccattg cttgcacagc agttgccacc agacactgca aagaactcca 180

ctgtcatcat gcatacccat gaaacaagta aagtcaatca gttggctgct acatggccaa 240

gggcgaactt tcaaactgat tacaacaaga agccttccaa tgtacccata atggctaacc 300

agcccagtgg gttcgctggt gcgactgctc ccttggtgac accaaagatg gaaatcggaa 360

acatgaagga cagttccaat cctctctcaa attctgctta cgcaagggcg cttgtaataa 420

agcagcaaga gcagctcctt cagcaatata aattgggcag 460

<210> 39873
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-A10

<400> 39873

ctacaacggc aagtggctca ccgctagggc cacctggtac ggtcagccca aacgggccgg 60

ggctcctgac aacggccgtg cgggcgggat caagaacgtg aacctgtgca cctacaaggg 120

cattactgcg tgcgggaacg ttcccatttt taaagaccgg aagggcttct ggctaagcct 180

cgaagtgaga atccagggaa a 201

<210> 39874
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-A11

<400> 39874

ggcatgaaga cccgaaactg aaaccaaaaa taaactgcag gcagaggggg aaggagagcg 60

gcaggagggt cattaaatag atgtgctttt ctgtttcagg gtaggaaatg atgtccgaga 120

gtgaagagca tggctcgctc ctagacaaga tcaacgacaa gatcaacgag aagatccatg 180

agtataagca ctcgtcgtcg tcctcctcct cttcggactc agacgatgac aagaagccca 240

agaagtctaa gaagaagaag ctttttggaa gaaaacatcc attgcatcat gtcctcggag 300

gaggcaaagc cggcgacctt gtgctgtgga ggaacaaaca ggcatctggg agcatcttgg 360

taggggtgat cgtgatct 378

<210> 39875
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-A12

<400> 39875

gtgatgcaga cgaagcagat ggcgaacccg acgacggccg cgggcctgct ccgcgtcttc 60

ttccacgact gcttcgtcag cgggtgcgac gcgtcggtgc tgatcgcgtc cacccagttc 120

cagaagtcgg agcacgacgc ggagatcaac cactccctcc ccggggacgc cttcgacgcc 180

gtggtgcgcg ccaagctggc cctggagctg gagtgccccg gggtggtgtc ctgcgccgac 240

atcctcgcac tggcgtcggg cgtgctgatt accatgaccg gcgggccccg gtacccggtt 300

ccgctggggc gcatggactc gctgtcgtcg tcgcccacgg cgcccgacgt ggagcttgcg 360

cacgccaact tcaccgtgga cc 382

<210> 39876
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-A2

<400> 39876

atttcgaata acacagttga gcgcgacgat gggatccctc gctaataaca tcatggtcgt 60

gggtgtcgtc cttgcagcgc tcgtcgccgg cgggtcatgc gggcccccga aggtgccgcc 120

cggtcccaac atcaccacca actacaacgg caagtggctc accgccaggg ccacctggta 180

cggtcagccc aacggtgccg gcgctcctga caacggcggt gcgtgcggga tcaagaacgt 240

gaacctgcca ccctacagcg gcatgacggc gtg 273

<210> 39877
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-F6

<400> 39877

ggcctcaagt acaccaacac tgtctggaaa actggagtca aaggtgtgga ccgcacaact 60

ccttagttac atcatctttt cagtccacac gctgtcatcg agaattcaca aatcgacata 120

tagatttgtg atccaatcac aaagaataac aaggccggga gctagctagt aaaggagcag 180

ggatttggtc ctttaatttg tccaaatgac gatgctgttg atattttcac cgcttcattg 240

cagtggagac ccaaaagatg atgctgggga cgttcagccc ccagctagag ccctatgtct 300

a 301

<210> 39878
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-D8

<400> 39878

ccacctcgta cctcgaaaca agttacgcga gatggcaccc tcctaataag tcatggtcgt 60

gggtgtcgtc cttgcaacac tcgtcgtcgg cgggtcatgc gggcccccga aggtgccgtc 120

cggtcccaac atcaccacca actacaacgg caagtggctc accgccagtg ccacctggta 180

cggtcagtcc aacggtgccg gcgctcctga caacagttgt gcgtgcggca tcaagaacgt 240

gaacctgcca ccctacagcg gcatgacggt gtgtggcaac ttccccatct tcatagacgg 300

caagggttgc ggctcatgct atgaagtgag atgcaaggaa atacctgatt tcttcggcaa 360

ttcattcacg gtgtacatca cttacatgaa ctacgaacct atcgctccct aacactttga 420

cttgagccgc aaggcctt 438

<210> 39879
<211> 459

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-D9

<400> 39879

cgaagatgtt gaatgttagt atttcacttc tggttgatta tgtttttttct tatgcgcttg 60

acaaatctag atatgcaacc agacatgctt tattcttgtt cctattttgt tttccttatg 120

tattaattcc ttaacttgta atgcacatga tattttcctt atgtattaat tccttaactt 180

gtaatgcaca tgatgttttc cttatgtatt aattccttta cttttaaagc acatgatgaa 240

ggctggttgt taggtaagtt ctcttaaact ttagtaagct tgcgtacttt tgctatggat 300

cttttgaatc aattacaagg taattcattt aaaaagcgta gtaacacgtg tacctaaata 360

tcatatataa aagtctgtat ggtactgatg gttgcaatgt agtggtgaaa caactagatt 420

aaaataacaa aatttatgta tggataggat cacatatgt 459

<210> 39880
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E1

<400> 39880

caaaaatgta cctgaacacc aatagtacgt tggagaacgt tgcttcgacc aggattacta 60

tcttcgatct gaaactctga taagcagaat tgaagacaaa cgatcgggta cttggggaat 120

atggaattta tttactgttg gtttacctag tacttgccta ccagccaggc gccccagggg 180

acgacggcaa agatacagtc tcgggtatta ggatggcaaa ggcagcgata gataaattct 240

actccaagta tatgttggga tcacgtaagc tggtgcttga cccacattca acgatctttg 300

gcaaaaggat gcttgtcaaa agtgcgatca tgtgctattc caataacaca agatagatca 360

gtcctcgagg aaggtctaca ggggccctgg cttttttg 397

<210> 39881
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E10

<400> 39881

ctctctctct tcattcgttc ccggcctcac cccgagccag tcgtctcgct agggtttcgc 60

cgccgccgcc atgcctcgcc gcagctcagg aaggtctgcc ccacgcccag ctccccgtgc 120

tgcttcactg aggaacccgc cacagccagc acgccaggct cctcctccag ctcctgttcg 180

agatggtggt ggctccatgt ttggaggaat tgggtccacc attgctcaag gtatggcgtt 240

tggcacgggt agtgccatgg cacacagggc tgttgactct gtattaggtc cccggaccat 300

ccagcatgag actcttgcca cagaagctcc tgctgctgcc cctgctgctc cagcgatgaa 360

tgctgatgct tgcagcttcc attctaaggc tttccaagat tgtctcaaca actatggcag 420

cgagatcagc aagtgccagt tctacctaga catgctgaac gagt 464

<210> 39882
<211> 331
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-052-Q1-K1-E11

<400> 39882

aaaaaaaaaa aaaaaaaaaa agaaaaaaaa aaaaaaaaga agaaaaaaaa aaaaaacaag 60

gggggggggg gggggggta gaggaatttg agggggggg ggggggcaa aaagaaatag 120

gggggagag cgggggtata ccacccttnn nccgggggg gggctaaggg ggaaaaaaaa 180

aatgggggg gggggaaaa aggatttgtt ttggggaagg gggggggaaa aaaaaaaatg 240

ggggcggggg gaaaaaaacc cgggggggg gaaaaagggg gggggaaaaa aataagggg 300

ggggaacaag cccggtggtg agggggggag a 331

<210> 39883
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E3

<400> 39883

gcaaatcatg atgaccatag tcgacgatct tgtctctgtc gacactctca ttgaggacta 60

tctgtgcgct gagccagtta acgagtacgt ccagagctgc gacatcgttg ccttcaacaa 120

gatctaggcg tgactttcga tcagtccttc ccctggggtg ctggcgatgg tggtggctgg 180

gcaatgcacc agcctaattt ttccatagct atatgtctgc tttgtgtggc cagtgatatt 240

gccgtgagta tttttggatc ctattcgagt cgaatgtacc agtaccagag ttaatttgct 300

ttaattcgaa acaccgttcc ggttggaatt ctgttacccg tgttctttgc ttgcagttcc 360

tctatttctt ttttg 375

<210> 39884
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E4

<400> 39884

gcacactgat gttgctgtcc tgctcgacaa tgaggccatc tatgacatct gccgccgctc 60

ccttgacatt gagcgcccaa cctacaccaa cctcaacagg cttgtgtccc aggtcatctc 120

atccctgact gcttccctga ggttcgatgg tgctctgaac gttgatgtga acgagttcca 180

gaccaacctg gtgccctacc ctaggatcca cttcatgctt tcgtcctacg ctccagtcat 240

ttctgctgag aaggcctacc acgagcagct gtccgtggcc gaaatcacca acagcgcctt 300

cgagccatcc tccatgatgg ccaagtgcga cccccgccat ggcaagtaca tggcatgctg 360

cctcatgtac cgtggtgatg tggttcccaa ggacgtgaac gctgctgtgg ccacaatca 419

<210> 39885
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-052-Q1-K1-E5

<400> 39885

ggacgaactt acactgaagg gaattacaca gttctatgct tttgtggaag aaagacagaa 60

agttcactgt ctcaacactc tcttttccaa gcttcaaatc aaccagtcaa taatattttg 120

taactctgta aatcgtgttg aactattggc gaaaaagatc acagagcttg gctattcttg 180

cttctatatt catgcaaaga tgctacagga ccaccgtaat agagttttcc atgatttccg 240

taatggagca tgcaggaacc ttgtttgcac tgatcttttt acaaggggaa tagatattca 300

agctgtgaat gttgttatca attttgattt ccccaagaac tctgaaacat atctccacag 360

ggttggtaga tctgggagat ttggtcacct tggtctggcc gttaattnga tcacctatga 420

ggatcggttt a 431

<210> 39886
<211> 58
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E6

<400> 39886

gattttgttt gtttagatcg gacttgatgg ctgcacgtaa aggcactatt gaggggat 58

<210> 39887
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E7

<400> 39887

atccatcaac gaaacaagcg cacaagaaaa aatacctcgc cgccaacaat ggcctccatg 60

tcctccatcc tgctcgcaac ggcgatgctg gctgcgctgt ttgcggttgg tttgtgcacc 120

accccgctca ccttccaggt tggcaaggga tccaagcctg gccacctgat cctcaccccc 180

aatgttgcaa ccatatccga tgtggaaatc aaagagcacg gtggcgatga cttctccttt 240

acgctcaagg agggaccgac cggcacctgg acgctcgaca ccaaggcctc gctcaagtac 300

ccccttgca tccgctttgc tgtcaagtct ggtggctacc gcatcgccga cgacgtcatc 360

cccgccgatt tcaaggccgg caccacctac aagaccacac tcagcatcta attagcctct 420

catgatgaat tagatttcaa aagagctcat ctggcgcaca tgt 463

<210> 39888
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E9

<400> 39888

gttttctatc aacatggaca tgaactctgt cactatgtaa attctggaca cccatcgagg 60

gctcgctgtt tactgttaag tgctggatga tcttgagatg tgactcataa tgttgtaggc 120

ctgcggaaag atagaatcat ggaaagagaa tgtgcgcatg catgggagag atcgtgaaca 180

gggtcattta tgtgggacga tggaagcgct tggtggttca tttgcacaca cacctgacgc 240

gacttttgg gagggggaga tagactgtgc tgaagacatc actgatttca ctggagagcg 300

ggaggcatgg cctgatgatc a 321

<210> 39889
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-F1

<400> 39889

gatgaagaag atcgcctgcg ccgtcctcat cgccgcctcg gccaccgtgg cgctggccgc 60

ggaggcgccg gctccgtctc ccaccagcgg ctcctccgcg gtcgcacccg ccatcgtcgg 120

ggccgccgtg gcctccttct tcgcgtacta cattcactga gccgccggac gaggagccgg 180

agccggaggg aagagaccaa ggtgggggga gagacttggc tgcgctgcgc tgctctgctg 240

ctcccgcgca ttcccgatgc gtgggcgtgc tctgattggg cacggcggtg gcagtggcac 300

accttcgtct tccttttgtt tgtttttttt tccttcctct ttctacttga ttttcattta 360

acgaattggt atcgctgatg caccagttta atttggtgcc ctgttatttg ttctttccct 420

cgagtgaggg atcgacacct gtaccattgc ttgccatttg tctgg 465

<210> 39890
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-F11

<400> 39890

catcgatcac gacaagatgg cgtgcacaaa caatgcgatg agagccttgt tcctcctggt 60

cctcttctgc atcgcgcatg gtgagaagga agagtcaaag ggcatcgatg cgaaagcgtc 120

cgggcctggt gggtccttcg acatcaccaa gttgggcgcc tccggcaatg gcaagacaga 180

cagcacgaaa gctgtgcagg aggcatgggc atcagcgtgc ggcggcactg ggaagcaaac 240

aattcttata 250

<210> 39891
<211> 465
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-052-Q1-K1-F4

<400> 39891

cttatcacaa cacacctgag cacagcggtt atggggataa tatggcagct tcattctgac 60

gatgctgggt cattctatgt catctacgct gccatctaag gccttatgac catctcacta 120

ctgtataaca ttgcacaggg tggcttgctt ccattcccaa taactgcatt cttccttata 180

aacacactct cttggaccta ccgtcgacgc acgacgccag actacgaggt gagcaacctg 240

atcgatagcg cacgacttca tcaagacagt gaacactagc aacagagtac ctgcaatatg 300

catcttctgc acggacttga tgaactgcat cccgccgatt gtgcgccact acgtcgagca 360

catgggctgc ctncgcgagc tgatggtgtt cgtcactgtg aggcatctgc ctgcgacgtc 420

tgtgctgcct gaggagcgct tcctcttcga caggctggaa ccttt 465

<210> 39892
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-F5

<400> 39892

aacaaagcag gagagatgat ctggagtctg ttggctatct tctgctatat tttttaagag 60

gaagcctccc atggcagggc cttaaagctg gcactaagaa acaaaagtat gataaaatta 120

gtgaaaagaa aatgcttacc tcggcagaga ttctgtgcaa atcttacccg ccggagttcg 180

tctcatattt ccactattgt cgctccctgc gatttgaaga caggccagat tactcttcaa 240

tgaagaagct ctttcgtgat gtatttatac gggaaggata ccaatttgat tacgtatttg 300

actggactgc actcaagtac cctcaaatgg gctccaacga caagcttgtt caacaaccaa 360

gtgcaagaat ggctggggtt ggaccattaa ttgacagaac agacaaagct tccatggggc 420

c 421

<210> 39893
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-D6

<400> 39893

atttgaacaa aaacaggtta aagcatgtga aatatccatc taatctttca ccagatggac 60

ctattgatga tgcagctgct gtgccatttg aaaatttgca agttcttttg ttaggatcta 120

atgacataga tgacttttct tcagtggatt cacttaacct gttcccaagt ttaagggatg 180

tcaggctttc tgacaatcct gtagctgatc ctgccaaggg tggtgctcct cgttttgtgc 240

ttgttgctcg acttggaaaa gttggaatac taaatggcag tgagataagt ccacgtgaac 300

ggagggaatc tgaaatacga tatgtccgcc ttgttatggg aaaaatagaa tcaaatgacc 360

aagaagagat cagacggctt cacctagat tcgctgaact gaagtccttt catggtattg 420

aagatgagaa gccaacttca agcata 446

<210> 39894
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-C1

<400> 39894

gcgaactatc tcgaccagct tggctttcat attgttggct atggttgcac aacctgcatt 60

ggaaattctg gagagcttga tgaatctgtg tctgctgcac ttactgagaa tgatcttgtt 120

gctgctgctg tgttgtctgg aaacagaaat tttgaaggac gtgtgcatcc tttaaccaga 180

gcaaattacc ttgcttgccc tcctttaatc gaggcttatt gcttggctgg cacagttaat 240

attgattttg agaaagaacc tattggcatc tccaacgacg gtaaatatgt ttacttccgg 300

gatgtttggc catccacaga agagatagcc gaggttgtca agtcaagtgt gctacctgac 360

atgttccaga gctcatatga ctc 383

<210> 39895
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-C12

<400> 39895

ccgactccgg cttgtagcag gcgaagtcgg agcgcaagtg cacgcgcgag accttggtgc 60

actgctccaa gctcaccgga tccttcacgg acgagaacct cgagttccag cgcaagatcc 120

tcgagcgctc cggcctcggc gaggacacgt accttccccc cgccgtgctc cgggtgcccc 180

ctaacccgtg catggacgag gcgcgtaagg aggcgcgcgc cgtcatgttc ggcgccatcg 240

accagctgct cgagaagacc ggtgtcaggc ccaaggacat tggcgtccta gtggtcaatt 300

gcagcctgtt caacccgacg ccgtcgctgt cagccatggt ggtgaaccat tacaagctga 360

gggggaatat tgtcagctac aacctcggcg ggatgggctg cagcgccggg cttctgtcca 420

tcgacctcgc caaggatctg ctgcaagtgc accccaactc ttacg 465

<210> 39896
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-052-Q1-K1-C3

<400> 39896

caaaagactt gagtaataat atcaaaaagg gtggtaagcc aagcacatca tttggtattc 60

agcaaagagc tgagaagtcc gcaaggacta aacgatctac gaagtcaata ctgcacgggc 120

tgtctgatag tgataatagt gattctgagt ttatgggcac cctgtcgagg tcaagatcgc 180

acaccctgaa gacaaaccga aaattgtttc aaaatggcag tactggtttg ataacacctc 240

aatccagtgg actgatagaa agagagaggg tcagaactaa atcccagcca ttggacccaa 300

aagcaacaag caacggagat ctacatacta tggatgagta tcagtctgtt atcatgcagt 360

taagggatga aaattcatca ctaaaggaaa gattatcaaa gatggaagaa tcgatgtcgc 420

aagagctagt ggntgagtgt gacaagaaca gtctttgac 459

<210> 39897
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-C4

<400> 39897

tgcgcgtcga gcgctttacc ccgccgtacc tcgccccgga gcgcgcggcc aaccggcccg 60

cgatcgacgt ggccaccgtc cccggggacg gcatggcgta cggggccaag ttcacgttcc 120

agttctcgac gcccgtgcag gccgtggccg agcccgacct aaaggtgacc atgtacgcgc 180

caccgttcac gacgcacggc tactccatga accagcggct gctggtgctg tccgtcaccg 240

cgttcgcggc caacgggcag aggtacacga taacggtcga cgctccggga aagcctgagc 300

tcgcgccgcc cggatactat ctgttgtacg tcatagcgaa aggcgtgccg agcaaggccg 360

cgtgggtgaa ggtacacaaa tgagaacgaa ggcggctcgg agacgaatgc cagtcgcgtt 420

tggcacgaca atacacaagt gttcaccgga gtagctggac c 461

<210> 39898
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-C6

<400> 39898

agctgctgga gaggctcaag gaggagacgg ggctgcacga cttcatcatg tgctcgcgca 60

ggcccatcaa cgggaagctc ctgccgctcc gtctgcagct gccgcccaac aacgccgtcg 120

tgcatatcgt gcttgtgcag gagtcatcaa atgtggcaaa aacttttgct tgaccagttg 180

accatcccgt tcacaaaatc atctgattga agatggtgga agcaacagct tgtgtatcaa 240

atgcagaatt gttcaacaat tgtgtatgta ttaacttttt gatcaaaccg ggtccagtgt 300

ggcggctaac acaagcaggg tccttctgcc tctagttgtt ctcattcatc atctcgtact 360

tgctttgtct gtagatatgt gccatctaat tctcaagatt catagggatc tgtatagata 420

ataaggaacc tttgaatatt ctgggttggt gatcttttt ca 462

<210> 39899
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-052-Q1-K1-C7

<400> 39899

gtgatttgaa ataattggga ataaatagtt cgtgaatccc tgaagcgtgc atatatatat 60

tcctgccaag ataaaggtaa tggagtcgtc acgcaggttc cagccggccg tcatcctgct 120

tctcctgctc attgtgtcca ccgatatggc acaggcaagg gaatgcgaga agtacagtga 180

gcgatttgtt ggggcatgca tgatcgcaga caactgcgcc aatgtgtgcc gcggtgaggg 240

cttcttggcc ggcaggtgca gcaccttccg ccgccgctgc atctgcacta ggcagtgcta 300

aacaagatcg ctcgatcgct cgccatgcat cgacaaccta ttcttaataa cgttcattat 360

ctcgttctta tttatgacga atgtcatgta tgttctggtg actgtcatgt atattctgat 420

gactgtcatg tatctcgntc atgtatgct 449

<210> 39900
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-D10

<400> 39900

cccacgcgtc cgcaaagatt tcgtatgagc gagatggtgt gcccattggc aaaagggcgt 60

actcggactg gctttacgtc gttccatggg ggctctacaa ggctctgatt tggaccaagg 120

agaagttcaa cagccctgtg atgctcatcg gagagaacgg aattgaccag cctggaaatg 180

agaccttgcc gttcgctctg tacgacaagt tcaggataga ctacttcgag aagtacctgt 240

acgagctcca gtgcgccata cgcgacggtg caaacgtctt cggctacttc gcgtggtcgc 300

tgctggacaa cttcgagtgg cggctcggct tcacctccaa gtttgggatc gtgtacgtgg 360

accggaacac gttcgtccgg taccccaagg actcagctcg ctggttcagg aaggtcatca 420

agaacgagaa ctgaatgatc gat 443

<210> 39901

<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-D11

<400> 39901

gatcataaca attaattaat taattaaggc gaagacacga agcgtggagg atcgatgcgt 60

ccccgccgcc gcagtatgtt ttaagctgac ttgcggtaga tgtgttgtgg cctgccggcg 120

gcggcgtcct tctgggtgtc tatgacagtc tcgaaggcgc cgacgagcgc cttgaccctg 180

ctgcactggc gcttctgcat cagcttggtg cgtgccgcct cgatcacgtc gttgctccgc 240

gccacctccc ggcgccgcgg ctgctccgcc tctgaccgcg gctccatcgc tgtcttcacc 300

cggctgccca ggaatctccg catcgccacc tccttctcgt ccatctccgg cttcttgatc 360

gcctccttca ccaccgccac gaacttgtcc gccaccacgt cctccactgc ggcgacaacg 420

acgatgggct ctggcaccgg cgcc 444

<210> 39902
<211> 123
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-052-Q1-K1-D12

<400> 39902

gacccacgca tacttttttt tttttccttc ttgacaatta agccatctat gacatctgnn 60

acncnacccg gccgcgttta tatcataacc tacaccaacc ttaacaggct tgtgtcccac 120

gtc 123

<210> 39903
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-D2

<400> 39903

tttctccctt cccccggctc ccggcgtctc tgcgctgcgg ccgtacggcg atgcggtggc 60

tatcgaggct gctctctcaa gccgtcgccg ccaggagggc ctccgcggcg gcgaggtcca 120

acactagtct cgtcaaggga ggatcccacg ggttcgctag tggcggcagg gatgggtctc 180

cggaggtgcc tcgggagtgg ttgcggaagc tgtgggtaga cgagctgaag aagcagaagg 240

aagccgcgag gagatggggc gtcggctcat cattagaggt tgcaggagcg accgaggagg 300

caccgtcaag gagctatcag tacgaata 328

<210> 39904
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-D3

<400> 39904

agttaccttg acagccgggg ggaaccctcc atcagtgaca gtaataatgg tgagcataat 60

catccagagg caggtctgca aactatcctg gagaattcag aagatttacc gtcaccatca 120

gggagaacac aacctgccgt tttcccacgt ggccaaagct ttggacaaag aattatgggc 180

aatatgatgg ataatatttt ggtcagaagt cttacgtcca aatcaaaagg tcgaacagat 240

gatattgctc caccctcacc tgtgaaggcc cctgatgatg aggctgacaa ggctgaagag 300

gaagaaagcc ctatgatgga aactgtcagg agcaaatgta ttacacagtt actgctgctt 360

ggggcaattg agagcataca gaagaagtat tggagcaggc taaaagctac acagcagata 420

gcaataatgg atat 434

<210> 39905
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-D4

<400> 39905

ccgtcggcaa ccttgtttct cttgcacttt aagcagctaa ctgttcccgg gtaggacgct 60

ctcctgcaat aaatcatggt agctgttaag aacggtggtt cacttgctct catatggtct 120

gaagaaacgg tgcttcagtc tttagcattt tgaggaggaa acgtgaaact tactggtcag 180

ctgaaagcta taaacattgc catggccctg gactggaagc cccaactttc ccaagcctgt 240

agaaagcgcc atgtgcctct acagaagcca ccgcgtgatg accagcttca tccggcaggg 300

tgggtacagt agctagctat agccctagtc tgatgtaaga acaaatttat attatccatc 360

ccatattgtc tttaattaga ttctttttg aaaccaatgc aatttcagct cttgctgtcg 420

tgcaaatttg taccattgtc catggatgag tagatgacct gggaga 466

<210> 39906
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B8

<400> 39906

agcgcgacga acgtaaaatg tttctgcgga gcatcctgac cgttgccgtc attctatctt 60

cccgaagggc gtgtcacgcc tgtaataaga ctacagctat cctggatctt gacgtggatc 120

ataacgcgcg atatgttttt aacaggctct acaaactctc gctcaaagag atcaaggccg 180

tcccctaata cgagggtttc tcgatggcct gcttatcact tcacccttta cacgtttcca 240

catctgcctt gatgaggagg actggaatcg catccttgac ctaat 285

<210> 39907
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-H3

<400> 39907

gcgtaaggga aatcaaagcc tgtcgcgtag gacagttcgg ctaagccata gacctgccag 60

tttaacgaag agttgatgca gatctgatca cgcagcaacg tctatgtaga gcgtgctgat 120

aacgtgttga gaactacgtc accacggatc accagatccg ttcctttccc tgccgtcagc 180

agattatgcg cgagaagatt tggatgaccc gtatcccttt ccataagcac gacagattgc 240

acatgagaca cat 253

<210> 39908
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A1

<400> 39908

caacatcaac aacaagacgg ccttcaccaa ccgcaccgac tacggcaagg gcgagcgaga 60

ggcgcagtgg gccacggcac agaggacgct gcacggcctc aaccaggcca ccgccacctc 120

cgacctcttc ggcgacaacc agggctaccg cgagctgtcg gagctcgccg agcaggcggc 180

caagcgcgcc gaggtggcca ggctcaggga gctgcacacg ctcaagggac acgtcgagtc 240

cgtcgtcaag ctcaagggcc tcgacattga caccattcag cagagctaca ccgtgtaaac 300

tcgactcacg ttttttattt ggtttttttt gcggacaaat acaaaccaca cacatatata 360

tatttggaaa agagtcggtc ggattttt 388

<210> 39909
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A10

<400> 39909

gcaggtgctt cttcatcgag accgacgcgg cgcccatcga ccccaagtac aagaagacga 60

tcagcgacgc gtgcgacggc aaggactcgg gctccgtccc catggactcc acctcgccca 120

acgacctgga cgggagctac ttcggcctgg tgctggagaa gaagatgccg ctcaccatcg 180

accgcctgat ggggatggac aagaagacgg agcccatagt gaaggccatg tccgacaaga 240

ccaccgactt cgtcccgctc ttcgccaaag ccatggagaa gctcagcgtg ctcaaggtgc 300

tcacggggaa ggaaggcgag atcaggaaga cgtgctccga gttcaacaac ccgcagaaca 360

gcagcggcag cacgtcggtg atacggatca gctccatcga ccccgaccag gtggccgggc 420

tgtcgcagcc agggtc 436

<210> 39910
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A11

<400> 39910

ggccgccaag aagttcgagc ccaagtaccg cctcatcagg aacggccttg ctaccaaggt 60

agagaagtca cgaaagcaga tgaaggaacg taagaacagg gcgaagaaaa tccgtggtgt 120

gaagaagaca aaagcgggag atgccaagaa gaagtaaggg aggaagttac ttgccttgcc 180

atttctcatc ttagtctttg gtttgtttag ggtgggctcc ttccggcaat gctgaatgtt 240

tagttagaag tagagaagat tttgccaatt acccatcacg ttgagtttct cgttgcacct 300

tctgttcagt tttgaggcac cttctgttca gttttgaggc actttgtcag acacaagaat 360

atatatactt ggtcatcacg gcttttgtcc tgctatcatc attttga 407

<210> 39911
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-052-Q1-K1-A12

<400> 39911

gcgacggcaa ggtgagcgag ttcatcggcg ggaggcacag cctgccgctg cacgagctgc 60

ccacccacgc cacccgcggc tactacctgg gcatgttcct cgggggcgcc taccaagagg 120

ccctcggcgg gctgcacaac ctcttcggcg ggccgagcgt ggtgcgcgtg tcccagtgcg 180

acgggcccca ctgcttcgcc gtgacgcgcg ccgccgcggg cccgtcctgc gccgacgtgc 240

tccgcgcgat gcagcacgag cccgaagtga tgtacgaggt gctgaagcag aggaccgacg 300

gcgccacggn cgntcgcctc gcccgggcct tcggcgcaat gccgtacctg gtgttcgacc 360

ccgaggccgc cgtgatgtcc ggcggcgaga gcagcgactc ggagcggtcg gccgccggcg 420

ccgccgagga ggaagacgat gaggagtggg agttcatg 458

<210> 39912
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A2

<400> 39912

caccatcgac agcaagacgg acttcaccaa ccgcaccgac tacggcaggg accagcgaga 60

cgcggagtgg gccacggcac ataggacgct gcacggccta aaccaggcca ccggcacctc 120

cgacctgtta ggggacaacc agggctaccg acagctgtca cagctagacg agcaggcggc 180

caagcgcgcc aaggaggcca ggctcagagt gctgcacacg ctcaagggac acgtcgagtc 240

cggcgtaaag ctcaagggca tggacattga caccattcaa cagagctaca ccgtgtaaac 300

tcgactcagg ttttttatgt cgttttttgt gcggacacat tcaaaccaca cacatatcta 360

tatccgtaaa gattcgatcg tat 383

<210> 39913
<211> 128
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A5

<400> 39913

actacgagtt gatctaggtg gcgtctccca gtgagcttga tggcgctaag gaataatatt 60

agttcgtttt gttgttatca tttatttatg taagacttcc gctttgtata atgatacttg 120

tgatattt 128

<210> 39914
<211> 483
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-052-Q1-K1-A6

<400> 39914

cgcggcgacg ggttcggggt tcgagggacg cgtcacgcga aacgcacgac ctgagatggg 60

gcacattctt cgctgctagg gcgccgccgc cgtcaccggg gcgggggcgc tgcgcgcgtc 120

gtcttcggcg ccatggcggc ggacggcctc cgcgtcgtac caccacacga tccaggctgg 180

accgcgggag acagtcgggc cgcgcgccgc ggcgcgcgag cgccgtcacg gacgcgttcc 240

ggcggtcctg ctcacgctcg cgggcgccgc gccagggaac ggaattgacc accggaacct 300

ccttaccgtc gacaggaggc agctcgcgga gatgctcaag cagtcgccct acttactctt 360

caccccgtc cgccttcagg tccgcgcggg cgagcgatcc aacgccattc ttcacgccgg 420

caccgtnctt cccataaggt gcatagagat gaaaattctg ggaatatact gaatttggta 480

atg 483

<210> 39915
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A7

<400> 39915

caacatcaac aacaagacgg ccttcaccaa ccgcaccgac tacggcaagg gcgagcgaga 60

ggcgcagtgg gccacggcac agaggacgct gcacggcctc aaccaggcca ccgccacctc 120

cgacctcttc ggcgacaacc agggctaccg cgagctgtcg gagctcgccg agcaggcggc 180

caagcgcgcc gaggtggcca ggctcaggga gctgcacacg ctcaagggac acgtcgagtc 240

cgtcgtcaag ctcaagggcc tcgacattga caccattcag cagagctaca ccgtgtaaac 300

tcgactcagt ttttttattt gttttttttt gcagacaaat acaaaccaca cacatatata 360

tatttgtaaa gattcgttcg tattttca 388

<210> 39916
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-052-Q1-K1-A8

<400> 39916

gttaagtgcg tgaagaggta ataatggtgg cagtggaggt tgtgccggcg tccgcggagt 60

ccgcgattcc gatcgaggct aaggccgcgg tgacgtcgga ggcggaggcg gaggccgagg 120

gcgaagtgga ggcggagatg aagggtgatg cggcagccac ggcggaagaa acggaggagg 180

aggaggagga ggagaaggtg tccaaaagcg acctgaagaa gctggagaac ctcatgtcca 240

agcttaaccc ctccgcgcag gagttcgtgc cgtcgtcgcg ccgcacggnc ccagccgccg 300

tgtcggcggc gaanccggcg ggaggaaggt gctcttagcc gacgcgcccg tgttcgtgt 359

<210> 39917
<211> 124
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A9

<400> 39917

gcagaagatg acagcttctt ctttgggcta gcgaccgcgc cggcacatgt ggaggacagg 60

ttggaagacg cttggcttca gtttgcggtg gagcactcct gcgacgacaa ggaggccatg 120

cgcg 124

<210> 39918
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B10

<400> 39918

cggacgcgtg ggctctttgg gcgaccgtga ctcgagccgt tggagatcca cactttcctc 60

cctgcatcgt ttctcgatct ctcgaccggg cgagggcgac gccgcccgcg cgcgcgccat 120

ggatgtggat tacgacgtga tcgtgctggg caccgggctc aaggagtgca ttctcagcgg 180

cctcctctct gtggaccgcc tcaaggtgtt gcacatggac aggaatgact actacggcgg 240

agactccaca tcgctcaatc tcaatcagct ctggaaacgg ttcaagggtg aagaaacacc 300

gcctgcgcac ataggagcta gcagagacta caacgttgat atggttccaa agtttatgat 360

ggcaaatggt accttggttc gtgtgctcat tcatactggt gtcaccaagt acatgtcctt 420

caaagctgtg gatggaagct atgttttcaa caagggaaag 460

<210> 39919
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B2

<400> 39919

gccagagcag acttcgatct tcttaatcta cctgacagtt tcttgccatc atttgatttt 60

attgatggac atgttaagcc tgttctaggg agaaagctta actggatgaa ggcagggatc 120

attgagagtg atctggttct aacagtcagt ccacattatg tcaaggaact cacttctggc 180

ccagataagg gtgttgagtt ggatggtgtc cttcgcacaa agcctctaga aattggaatc 240

gtaaatggca tggatgttta tgaatgggat ccttcaacag ataagtacat cagcgtgaaa 300

tatgatgcaa caacggtaac tgaagcaagg gctctcaata aagagaggtt gcaagccgaa 360

gtcgga 366

<210> 39920
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B3

<400> 39920

agcgcgacga aggtaagatg ttcctgcgga ggatcctgac cggcgggggc ggcctggcgg 60

ccctgagggc ggcgcgcgcc gtgaaggaga cgacggggat cgtgggcctt gaggtggtgc 120

ctaacgcgcg agaggttctg gtagggctct acgagcgcac gctcaaagag atcaaggccg 180

tccccgaaga cgagggttac cgcaaggccg ttgaatcctt caccggtcac cgcctccaga 240

tctgccagga ggaggaggac tggaagcgca tcgaggaccg aatcggatgc gggcaggtcg 300

aggagctcat cgaggaggcc gaggacgagc tcaagctcat cgctaaaatg attgaatggg 360

atccatgggg tgttcccgat gactacgaat gtgaggtgat tgaagacgac accccaattc 420

ctaagcat 428

<210> 39921
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B5

<400> 39921

atctctcgaa cgggcgaggg cgacgccgtc cgcgcgcgcg ccatggatgt ggattacgac 60

gtgatcgtgc tgggcaccgg gctcaaggag tgcattctca gcggcctcct ctctgtggac 120

cgcctcaagg tgttgcacat ggacaggaat gactactacg gcggagactc cacatcgctc 180

aatctcaatc agctctggaa acggttcaag ggtgaagaaa caccgcctgc gcacatagga 240

gctagcagag actacaacgt tgatatggtt ccaaagttta tgatggcaaa tggtaccttg 300

gttcgtgtgc tcattcatac tggtgtcacc aagtacatgt ccttcaaagc tgtggatgga 360

agc 363

<210> 39922
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B6

<400> 39922

cggacgcgtg ggcgacaaga tggcgtgcac aaacaatgcg atgagagcct tgttcctcct 60

gggcctcttc tgcatcgtgc atggtgagaa ggaagagtca aagggcatcg atgcgaaagc 120

gtccgggcct ggtgggtcct tcgacatcac caagttgggc gcctccggca atggcaagac 180

agacagcacg aaggctgtgc aggaggcatg ggcatcggcg tgcggcggca ctgggaagca 240

gacaatcctc atacccaagg gtgactttct tgtcggacaa ctcaacttca caggcccttg 300

caagggcgac gtgaccatcc acgtggatgg caatctgctg gcgaccacgg acctaagcca 360

gtacaaggac catggtaatt ggatcgagat tctacgt 397

<210> 39923
<211> 144
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B7

<400> 39923

atggaagcag acatagcaga tgatatgtct atagagcttc acatatatac agatttctta 60

agaattgttc tggagataat tattgccatc cttacatatg cattgcccag aaatcctgag 120

gttgtgtatg ctgtattgca tcga 144

<210> 39924
<211> 151
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-051-Q1-K1-H1

<400> 39924

gcgtaaggga aaacaaagcc tgacgcggag gacagcacgg ctaagccata gaccagccgg 60

gggaacgaag agnagaagca gatcggagca cgcagcaacg gcgatgtata gcgtgctgat 120

aagctggtga gaactacggt accacggatc a 151

<210> 39925
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-C8

<400> 39925

cctcctcttc ggactcagac gatgacaaga agcccaagaa gtctaagaag aagaagctgg 60

ttggaagaaa acatccattg catcatgtcc tcggaggagg caaagccgcc gaccttgtgc 120

tgtggaggaa caaacaggca tctgggagca tcttggtagg ggtgaccgtg atctggttac 180

tgttcgaggg catcggctac cacctgctta ccttcctttg ccacgcacta attgtgtttc 240

tgaccatctg gttcatgtgg gccaatgctg 270

<210> 39926
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-D2

<400> 39926

ggaggagaag aaaagggagc ttgaactatt ggataacaag gtgcaaacat tagagaaaga 60

gtggtctgtg gttgaagaag aatctttaaa gaaacccact cctgcacaaa gggagaaggt 120

cctggagagg caactgcata gcctcatcga gcagttgaca gctaagcaag ctcaagctga 180

aattctggcc actgatgtgc attccaaaga aaaggagctg gaacggctga accatctgca 240

tagaaacctc tacggcggtg ccaacgaaac tggcgcaccc cgg 283

<210> 39927
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-D4

<400> 39927

gctgttctct acattgagtc attgcgttta gatgtcgaca aggcctggtg gaaggatttt 60

ggcggtgtga tcctgttggc agtgcttatc tttatcctga tattcctact actattgtgg 120

ttgtttcatt cgtacattgc tgtaacaaat caatcaacct acgaagttgc cagaaggaag 180

cgaatattct acctaagggg agttcctgaa agagtccacc cattcagtag aggcatatgc 240

agaaatctct atga 254

<210> 39928
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-D6

<400> 39928

ggatgctgcg gagagcacca tgaatgccta caaagctgct caggatattg ctcttgggga 60

tctggctcca acccacccca tcatgctcgg gcttgctctc aacttctcag tgttctacta 120

cgagatcctc aactgccctg accgtgcttg caaccttgct gagcatgcct ttgatgaggc 180

aatctccgag ctagactgcc tgggagagga gtcctacaag gacagcactc tgatcatgcg 240

tgttctgc 248

<210> 39929
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-D8

<400> 39929

aaagaaacag gcacacaaga acaaatacct cgccaccaac aatggcctcc aggtcctcca 60

tcctacttgc aacggcgatg ctggttgcgc tgtttgcggt tggtttgtgc accaccccgc 120

tcaccttcca ggttggcaag ggatccaagc ctggccacct gatcctcacc cccaatgttg 180

caaccatatc tgacgtggag atcaaagagc acgggggcga tgacttctcc tttacgctca 240

aggagggccc gaccggcacc tggacgctcg acaccaaggc cccgctcaag tacccccttt 300

gcatccgctt tgctgtcaaa gtccgtggct accgcattcg ccacgacgtc aatccccgcc 360

gatttcaagg ccgcaccacc tataagacca cactcagcat ctaatcagcc tctgatgatg 420

aaatatattt caaaag 436

<210> 39930
<211> 58
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-E1

<400> 39930

tgaaaagaca gttagccatc aagcaggtgg tagtggtcac cgaggtagat ggtccaaa 58

<210> 39931
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-E2

<400> 39931

gctatccagc tccaactgca cggtggccat cgtaggcagg aaggaggact gcaccatcgg 60

agccgttcga gatgattggc gccacaagga tacaggaact tatcgactcc atggaggtcg 120

ccgaggaggc gccctgggag gaggccagct tcgtgcagga tgaggagagg ggcccagaag 180

atgctgctgc tgctgcacct gcacccatgg acatctataa gccccatatg aacccaccaa 240

gtttacgctg cattctgtgg tccctaaaga cta 273

<210> 39932
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-E3

<400> 39932

tgaaaagaca gttggccatc aagcaggtgg tagttttcac ctaggtattt tgtccaaaca 60

agggctgttt gagatttgac ccatgcgttt ctttaagagc atcgtcgaat aaaagatgac 120

tgcagtcaga ttgctttctt ttgatacctc atattggccc attgggtgtg atggacatgt 180

aatattcagt tatggaacat gctcatttct atgcttagcg tgctgggaat tttgcaaaag 240

gtctcatata tcatt 255

<210> 39933
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-051-Q1-K1-E4

<400> 39933

atcaccggcc gtcgagcgag cagtctccca attccaccca ataactaata acatctcctc 60

gaacgccagg ttccttggac cactatatcc aggagcgacg aagtgatcca cccgccagcc 120

atggagatga agaaggtcct ctgcgccgcc ctcgtcgccg ccgcctcggc caccgccgtg 180

ctggcctcgg tcgcctccga ggcgccctcc gaggcgcccg ccggcgcggc cggtggtgcg 240

gctggcccta gcgcaagcgg cgccgccgcc gtcgtcgtgc ccgccgtcgg ggcgctcgtc 300

gcctccttcc tcgcctacta cctncactga gcgacgacgc gcggggcggc aacgttggga 360

tgcatcgtgt ttgttcattc gataaataat tggttttttt atttacgtg 409

<210> 39934
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-E5

<400> 39934

gcctcgtttt ctactcgtgg tctgaccatc caatccaaac tcaaaagaac aaatacgaaa 60

gaagcgtagt gaaggggaac aaatgaatgg atatatgtaa tcttgagatg catgccctct 120

caaatcactg tactggggtt ctcaaaaaaa ttattcgcat gggagttata tataactg 180

tatctcacca tttatttaca ccaacaagtc attgggtatg catgttctat cgttacat 238

<210> 39935
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-E6

<400> 39935

cggacgcgtg ggtagttcgt gaatccctga agcgtgcata tatatattcc tgccaagata 60

aaggtaatgg agtcgtcacg caggttccag ccggccgtca tcctgcttct cctgctcatt 120

gtgtccaccg atatggcaca ggcaagggaa tgcgagaagt acagtgagcg atttgttggg 180

gcatgcatga tcgcagacaa ctgcgccaat gtgtgccgcg gtgagggctt cttggccggc 240

aagtgcagca cct 253

<210> 39936
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-E7

<400> 39936

ctcctccacc accaccacca agctcaacaa cagccagctc gcgaaaataa tgaagagccg 60

cagcatggca tcatcggccg cgctcttggt gctagccctc gcgctagtgg cggccaccgc 120

cccacaggta gcggaggcaa agaagaagag agcggcggag agcggcgagg cggcggaggc 180

gaagaagatc caggacgact tctgctcgac gctgtgcgag ggcaagaagg ggacggacct 240

gttcgtgtgc aaggagtcct gcgctctctc ccagcagtcc aacctggtgc tgtacggcag 300

gatccagtgc aagggcaagt gcaccgagca gaaaggcatc acg 343

<210> 39937
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-051-Q1-K1-E8

<400> 39937

gggtctgctc gtctagagaa ttttgcttct gcactcgaac tgattggaca aaagctccaa 60

atggatacac tgcaaagtcg acttgatgca gagttccttc tagctcatat gtgttcagtc 120

aagtttaagg aatggatcgt ggtgctagct actttattgc ggcgtgcaga ggttttggtg 180

gatctcttta ggcatgattt gcgattgtgg aaagcatata gcattactct acagtcacat 240

gatgtattca cagaatatct tgaccttctt aatatcttgg aggaggagct ntcatctgtc 300

tctgatctta cattgcaaaa tggaccattg tcatgaatgc tggacaatgc cactgattga 360

aagattgcgg tgtttaaacc ttgagttaat ta 392

<210> 39938
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-F1

<400> 39938

cggactcgtg tgacgtcacc gtctacatcg cgggctccaa agtgaggttg gagtgctag 59

<210> 39939
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-F2

<400> 39939

attcacctcc aatctgcccc tcgggccgtc ggcgccgatg gagaaggtga agaacatgct 60

caagccgcgg ccgacgccgc agcagcagct gcgcgagtgg cagcgccgcc tccgcaacga 120

gtgccgcgtc ctcgaccgtc agatccgaga tgtgcagagg gaggagaaga acgtggagaa 180

agccatcagg gaggctgcca agcgcaatga catgggatct gcaaaggctc ttgctaagga 240

gcttgtaaga tcaagacgtg ctgttaatcg gctttatgag aacatggctc aactaaattc 300

aggtatcaat gcaccttgga gacatttgtc gcactgcatg aacaggtggg tcatcggtcc 360

aaaagcactt gaagtgatg 379

<210> 39940
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-F3

<400> 39940

cggacgcgtg ggacgtcacc gagtacatcg cgggcgccaa ggtgaggctg gagtgcaagc 60

acttcggcac cggcaagctc gagcgcgcca tcgacggggt caccgacgcg accggcacct 120

acacgatcga gctcaaggac agccacgagg aggacatctg ccaggtggtg ctggtggcca 180

gtccgcgcaa ggactgcgac tgaggtcagg cgctcaggga ccgcgccggc gtt 233

<210> 39941
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-F5

<400> 39941

ccgatctcga tggcgaaccc tcgcgtcttc ttcgacatga ccgtcggcgg cgccccggcg 60

ggccggatcg tgatggagct gtacgccaac gaggtgccca agaccgcgga gaacttccgc 120

gcgctgtgca cgggcgagaa gggcgtgggc aagtccggga agccgctcca ctacaagggc 180

tccaccttcc accgcgtcat ccccgagttc atgtgccagg gcggcgactt cacccgcggc 240

tacggcaccg gcggcgagtc catctacggc gagaagttcc ccgactgaga agttcgtgcg 300

caagcacacc gtccccggtg tgctctgcat g 331

<210> 39942
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-C6

<400> 39942

agcgacggtg ttttctacgc cgagctcaac gagatgctga cgcgggagct ggcggaggac 60

ggctactctg gcgtggaggt gcgcgtcacg ccgatgcgca cggagatcat catccgcgcc 120

acgcgcacgc agaacgtgct cggcgagaag ggccgtagga tcagggagct cacctccgtc 180

gtccagaaga ggttcaactt ccctgagaat ggcgtagagc tttacgccga gaaggtcgtc 240

taccgtggcc tctgtgccat cgcgc 265

<210> 39943
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-F6

<400> 39943

ggcaaagaag ttgttcaata agctatcaac tgaccctaca acaacaaaca tgttggtcgc 60

taagcaacca gcctctttca cgggttctga ggttcgaatc attgacgatg acatgcccct 120

tgctcaattt gctgttgctt tcaatggagc atcatgggta gatcctgatt ctgttgcact 180

gatggttatg caatcaatgc ttggttcatg gaacaagagt gctggtggag gaaagcatat 240

gggttcggag cttgtacaga aagcagcaat caatgacatt gctgagagtg taatgtcatt 300

caacatgaat tacaaggaca ctgggctttt tggggtctat gct 343

<210> 39944
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-G1

<400> 39944

atcccgcagc cgccgtccaa cgccaactcg gatgccatgg cgtcgttcaa gcaggcccag 60

gctctagctg ctggaccctt ggtgcaagcc cgaaactttg cagtcatgac tggcgcaaat 120

gcaggcatat cttgtgtcat gagaaggcta cgatggcaag aggacattca gggcagcatg 180

acagctgctt ttggtgctgg tgctcttttc tccatagtga gcggaatggg aactcctaa 239

<210> 39945
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-G2

<400> 39945

aagagtgcca gttctactac cacggtggcg ccgtaaccat ccgatgaggc acgtgggggt 60

gcaagtacat gctcgggggc atggaccggc accggcacgg cctgttcgac gacgatggga 120

agtagatgca cggaga 136

<210> 39946
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-G3

<400> 39946

cggacgcgtg gggcctcggc tacggcggca acaagaagct cgacggacgt cactcccagg 60

gccagcttat gcagatgacc atgatggttc caccttcgtt accgtgagaa cactctctga 120

acaaggagga cagactggtt cgctattgct ggctggttgt gaagcacaga gacgcggtgt 180

atggactgga gttctgctat gaggatggcg gtaggaacga gctgagcggt tttagccttg 240

cttgtagaaa ggatg 255

<210> 39947
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-G5

<400> 39947

gtggaggccc ggggtgttcg acgtcgtggg ccacagccac cacatcttcc acgtgctcgt 60

gctcgtcggc gccgtcacgc actatgtcgc cgtcgccgcg ctcatccact ggcgggagaa 120

ggtggctgcc gcctgtggcg cggcgtcgta tgcggggctt gctgctcctg gcttctgcag 180

caacccagct gaggtgtttg atcatccaga gcttcaatgt gccactgcga tggattcaac 240

atgcgttcga atcggttaac gaagtacttg cagttgcagc atagatcggc tctagaggtc 300

gtcgattcgt aatttaattg atgggatgat cgagtatggg ggctcattaa cttatgatga 360

gatttatct 369

<210> 39948
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-G6

<400> 39948

cccacgcgtg cgcgaagctc cagtggagcc ggcccgggtc ctgccttctc gtcgcctggg 60

ggttcctggc gttcgtcgtc gtgattgtcg tttgacgtct acagttcgac gaccacttgc 120

acaagcggaa ggagctcgtc gaggcgtct 149

<210> 39949
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-H1

<400> 39949

gcctatcgct ccctaccact tcgacttgag cggcaaggcc ttcggctccc tggcaaagcc 60

cgggctcaac gacaagattc gccactgcgg catcatggac gtcgagttca gaagggtgcg 120

atgcaagtac cccgccgggc agaagatcgt gttccacatc gagaagggct gcaaccccaa 180

ctacctggcc gtgctggtga agtatgtggc ggacgacggc gacatcgtgc tgatggaaat 240

ccaagacaag ttgtcggctg agtggaagcc catgaagctc tcttggggcg ccatctggag 300

gatggacact 310

<210> 39950
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-H10

<400> 39950

cccgatcgcc accgccgacc ggactcccct caaaggcggc cacagcacag cgagcatggg 60

ggaccggcat cagcatgggc ggggcagcgg cgtggaggac ccggcgacgc tgctgcggcg 120

ggtgcagacc cgcgcgccca actcgacgca ggtggtgggg ttcctgacgc tgctcgtcta 180

tggcaccgtg ctgacactgt tgacgggatt gactctgacg ggcgccgtgt tggaactcgt 240

cttcctgggg ggcatcgcgc tgttcaccag acccatgtgg gtgcccgtcg acggcgtgat 300

ctccgacatc gttggcgacg cgctctacga ctgagccttt cacgacggca agctccccgt 360

ggccacctgg atgtcccgct acttcacggg ccggcacccc gggggcgc 408

<210> 39951
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-H11

<400> 39951

gaataacaca ggtgagcgcg acgatgggat ccctcgctaa taacatcatg gtcgtgggcg 60

ccgtccttgc ggcgctcgtc gccggcgggt cgtgcgggcc cccgaaggtg ccacccggcc 120

ccaacatcac caccaactac aacggcaagt ggctcaccgc tagggccacc tggtacggtc 180

agcccaacgg tgccggcgct cctgacaacg gcggtgcgtg cgggatcaag aacgtgaacc 240

tgccacccta cagcggcatg acggcgtgcg gcaacgtccc catcttcaag gacggcaagg 300

gctgcggctc atgctacgag gtgagatgca aggaaaaacc tgagtgctcg ggcaatccag 360

tcacggtgta catcactgac atgaactacg agcctatc 398

<210> 39952
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-H2

<400> 39952

cgcacgccct cgcccgagcc atcttcgaag gcggaccaca tgacggacca gctcatcgac 60

gagctcaacg aggacttcaa ggtggtctat aacgatggcg acagcggtgt caatacctac 120

gagcttgcaa ctgagatgcg ctctgttggg cacaacctta ctgaaaaaca gcttgaagac 180

atgatcaacg acatggatgc tgatggcgat gctaccattg acttgaccaa tgacctgaac 240

ctgatggcga agctgatgaa agacaccaac tacgacgacg accttaagga ggaccttaac 300

gaggtctac 309

<210> 39953
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-H5

<400> 39953

cccacgcgtc cggtgcatga tacctgcatc atgtcttctg gaggttgtct ttgatcatgt 60

gcattattcc cgggacacaa agctgagcat aatggtcgtg cttataggag ttgcagtctg 120

cacagttact gatgtcagtg tgaatgcaag aggtctaatc gcggctgtta tagctgtttg 180

gagcacagct ttgcaacaat attatgtcca ttttctccaa cgcaagtact ctctgaactc 240

attcaacctg ctgggccaca ctgctccagc ccaagctggg tcactcctgc tagtgggacc 300

atttgcagat tacttgttga caggcaaaag ggtggatcac ttcagtttct catcgcttgc 360

tctgtttttc ctggcactct catgcttcat cgccattggg gttaatctga gccaattca 419

<210> 39954
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-H8

<400> 39954

cagaaagaga agagcggaat ttgattattt ttatgatgag gaagatgaca atattgtagg 60

ggttgcatct actgagctgc cggggcagca taccccagac cctgttgttg gaattgctga 120

agacgctgaa gtaaatcaaa agagcttgga aaatgaacac gatgtaccaa acaatgggaa 180

aggttcctca acggtggtgg attctgactt cacatctgaa tgtaaaatca aaacaatcga 240

tcctatgaac gattctggga ttactttaaa agaaaagagc attgatcctt ctatcaatga 300

catgaagcaa gattctg 317

<210> 39955
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-H9

<400> 39955

caaaaatgta cctgaacacc aatagtacgt tggagaacgt tgcttcgacc aggattacta 60

tcttcgatct gaaactctga taagcagaat tgaagacaaa cgatcgggta cttggggaat 120

atggaattta tttactgttg gtttacctag tacttgccta ccagccaggc gccccagggg 180

acgacggcaa agatacagtc tcgggtatta ggatggcaaa ggcagcgata gataaattct 240

actccaagta tatgttggga tcacgtaagc tggtgcttga cccacattca acgatctttg 300

gcaaaaggat gcttgtcaaa agtgcgatca tgtgctattc caataacaca agatagatca 360

gtcctcgagg aaggtctaca ggggccctg 389

<210> 39956
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-A7

<400> 39956

cttctccatt cgtttacctg aagcacaaga ataaacgcag ccgggcatgg gcgaagctga 60

gctcaacaac gtgaccgtcc tgctggtggc cctcctcctc ctgagcagtg gcgttcagga 120

cgctgccgcc atgccaggca cgttgaacta ctgtcgcgat ggtggccgac gagccagact 180

gatagaacaa ggacctgtac gggcccgtcg ccaacgccaa taaatacacc cgcgggtgcg 240

agtgcataga acgctgttgg ggcgcgcgct gat 273

<210> 39957
<211> 118
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-B1

<400> 39957

catatcctat cctctacctc tgcatcatct accggctccg acgtctcgta tccggtccgg 60

accttggcag gcatgggcaa catcaacatc gtatttgaca ctttagaaag gatcgaca 118

<210> 39958
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-B3

<400> 39958

gtcaggtcag cctccctctc cggatccccc acctgctccg ccgtcgtcca acgcgtcggt 60

ccccttggca gccaggatga cagaagcacc atttctgcca cgtgagaggc tcttcaagct 120

gcaacatcat ttccagaaca tgaccaagca cacgtgcctg aaagggcgct acgatgtgat 180

cacctacgtt gccatgccta ttgcacttgc tgccttcagc atgttcatga ttgggcgtgg 240

agtgtacaac atg 253

<210> 39959
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-B4

<400> 39959

cggcggcctc ctcctcctcc ctctcttcag cgtccccccc cgctcgccta atctctcggg 60

gcggccttgc cggtgccgca gacggccatg ggtctgcgaa ggtgcccttg tggaaagatc 120

cgttgagccc gagcaagtgg aaggaagagc actttgttct agcaagcctc tcaatgtggg 180

gggttatttt ttatggtggt tacaagcttt ttagtggaaa gaaggaagcc aagactgagg 240

cgggatcacc acag 254

<210> 39960
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-B6

<400> 39960

gcgcctctac atttcttctc tctctgctcc ttcgcctacg gctgatgcat tcatgagagg 60

gatcgtcgtg tcggactcgg aggagcacca ctttcgaatc gattgccgac gctgaggcgt 120

gcaagaccta cccgtagtag gct 143

<210> 39961
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-B8

<400> 39961

cggacgcgtg ggcgacgatg tcatccctgc caactggaag gccaacaccg cctacgccgg 60

caaataatta actttagtgc tgacaatact ttaagccggc ctatgctagc tatactagaa 120

ttggttggat cccaagcaat gcattacaca tgcatgcata ggaccgtgat atctatttgc 180

taccactacc ctattacgac agtgatgctg gcgccaacaa tgatggtgtc atcctccttg 240

tgcatcttct tcatcggcat atatagctag agtgagact 279

<210> 39962
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G9

<400> 39962

ctttgttccc atttctggtt ttgagggcga caacatgatt gagaggtcca ccaaccttgg 60

gtggtacaaa ggcccaaccc tgcttgaggc tcttgaccag atcaccgagc ccaagaggcc 120

ttcagacaag cccctgcgtc tgcccctcca ggatgtgtac aagattggtg gtattggaac 180

tgtaccggtt ggtcgtgtgg agactggtgt catcaagcct ggtatggttg tcacctttgg 240

tccaactggc ctgactaccg aggtgaagtc tgttgaaatg caccacgagg cgcttcagga 300

agctcttccg ggtgacaatg ttggcttcaa cgtgaagaac gttgctgtca aaggatctaa 360

gcgtgggttt tggggctcca acttcaaggt tgacccttgc aaggaggctg ccagctttta 420

cttcccaagg ca 432

<210> 39963
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-C1

<400> 39963

gcaaattaaa gagggatcgg attggaactc gatcggaagg aaggtcctgc aggccggctg 60

ggcggtcgtg gatcgaggaa ccaagctgct gctgctgcta ccggacgaca ccaaccatga 120

tacggaggac gacggtgtgc ctaggcctgc tggttctact actggcggcg tcgactgcta 180

cggcacattt ctagatcgtg gacgtggacg agtacttgaa caggcgcacg 230

<210> 39964
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-C4

<400> 39964

tgacgacgtt ggcaagagag gagggccggc gtcggcgtgc ctagctcgat cttgaaccgt 60

gggtagccag catggcgccc agcagcagca tagcagtact gctgctcctc gtcgtcgccg 120

tcgtcctctc caacgtgccc tcctcgggcg ccctggcctg ctcggcgtcg tctctgctgc 180

accagtcgtc tccggctgag agtgagactg ataccgacag tagcagcgga gaatctttgt 240

cggcgtcgtc gtc 253

<210> 39965
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-C5

<400> 39965

atcgccagca aagggagagc gccgaggtga tagagataat gcggtggtgg tgctcatggg 60

tggatgaatg ggggtgtcgg gctatgcgcg gttgacgtcc tcatcggagc aaaccccttc 120

accgttggtt gcctcgtgcc gtggcctggt aagtcgatta ctgctcatca tggtaggagg 180

ccccgaccga ccgtgcaacc gtgtgccgac gctgtggctg tgcgccaatg aaatcacgtg 240

taagaacagg t 251

<210> 39966
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-F5

<400> 39966

gcgtcgctca acttccgcat ccagggccac gacatgaagc tcgtggagct ggagggctca 60

cataccctgc aggacgtgta cgactcgctg gacgtgcacg tcggccactg cctctccgtg 120

ctggtcgacg ccgaccaggc gcccggcgac tactacatgg tggcctccac gcggttcatc 180

cacgacgcca agtccgcctc cgccgtcatc cgctacgccg gctccagcgg cgccccgccg 240

gcgcccaaca tgaccgagcc accggccggc tgggcctggt ccatcaacca ggccaggtcg 300

ttccgctgga acctgacggc cagcgccgcg cgccccaacc cgcanggctc ctaccactac 360

ggccagatca acatcacccg caccatcaag gtcatggtct tccgcggcca catcgac 417

<210> 39967
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-F6

<400> 39967

gcgagacttc ccatccattc cactccgcan tggcggcggc ggcggcggcg aggtctctac 60

gactgtcaca tctctccgaa gagggcggag gggagggaga tgtcgtaatg ctgccggagg 120

gctgctgacg aagatgcgga agctggtgaa gggcctcgcc aggcccgagc ccacgtggct 180

catggccatg gaagaggcag caccagtgac atttcctcgc atgatgggaa gattaagggg 240

tgtttgtttg ggattataat ctgtccagat tatataggcc aacaacttga acacccccta 300

agaagatcga gtttctgatg atgtgtatgt taggaagcta aacaaaaaga acatccggat 360

tcgctatgcc atgatgcaat caatggattt gatccaccac cagcacgagc ttt 413

<210> 39968
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F7

<400> 39968

ggagttggtg atgttatttc tcttttgtgg ttcaagcgca gccttcctcg ctattgcact 60

cggtttattg agatatgcgt gatgctttgt gctgatcatg gtccctgtgt atctggtgct 120

cataactcta tagttactgc tagggccgga aaggaccttg tttccagctt ggtgtctgga 180

ttattgacga ttggtccccg tttcggtgga gcaattgatg atgcagcccg atacttcaaa 240

gatgcatgtg ataggagcct cacgccatac gagtttgttg aaggcatgaa aaagaaggga 300

atccgggtgc ctgggattgg tcacaggatt aagagcaaag acaacagg 348

<210> 39969
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-F8

<400> 39969

agctgacccc ggcaccgccg ccggcctcct ccgcctcgtc ttccacgact gcttcgcaaa 60

cggctgcgac gcgtccatcc tgatcgaccc gatgtcgaac caggcctccg agaaggaggc 120

cggccccaac gtctccgtga agggctacga cgtgatcgag gagatcaaga cggagctgga 180

gaagaagtgc ccgaacgtgg tgtcgtgcgc ggacatcatc tcggtgagcg cccgcgactc 240

ggtgaagctg acgggcgggc ccgagtacgc ggtgcccctg ggacggcgcg actcgctcgt 300

gtccaaccgc gaggacgccg acaacctgcc gggcccggac atcgcggtgc ccaagctcat 360

cgacgagttc gacaagcang gcttcaacgt cgaggagatg gtcgcgatgc ttggcggcgg 420

ccacagcatc ggcg 434

<210> 39970
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F9

<400> 39970

tgagcatgtc ttctggacag ttttcaagtg ctcgttcgat ggacgtgaag acaaaggcag 60

agcttgagga gattgctctc gctgaagctg atgttgcaag gttaaaacag aaggttgcag 120

agcttcacct ccaactcaat caacaacgtc aacaccagta tggctctgta gtggatgcaa 180

atgatcgtca tcaccgcctc cctggtcatt tctcacagca aaactttgtt caacaaggat 240

ttgatatgaa ccttgctttc tgcaatcaag agaagcagag aaatgaggag agttcggtgg 300

agtcatcaca atggagaaac atcaagcagc atgtgctacc ttatggttct tcgaggccac 360

tcacacgaaa gctttcattt gatgcctcct caagtgaatc aaggggcaca gaaccctcaa 420

caagtatgtc aacagagaac aca 443

<210> 39971
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-G1

<400> 39971

ctctccctct ccgtccccca agcaaagaaa agaagctagc tagctaggcg tagaacgaat 60

gacgacgcan ggcggcaaca ggtcgacgac gacgctggtc gccgccgtgg ccgtagttct 120

ggccgtggcg gcggcgtcgt ccctggccgg cgtggcgtcc gcggagaagg cgggcgggtt 180

cgtggtgacg gggcgcgtgt actgcgaccc ctgccgcgcc gggttcgaga cgaacgtgtc 240

caggagcgtg gccggcgcga cggtggaggt ggtgtgccgg cacttcggcg cgtccaagga 300

gacgctcaaa gcggaggcga cgacggacga cagcgggtgg tacaagctgg agatcgacca 360

ggaccaccag gaggagatc 379

<210> 39972
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G10

<400> 39972

cctccctccc tcacacaaat aataaggaaa ggtcccgccc ttttcctccg acatccacaa 60

ggggggaggg gaaaacacgt acattcaccc ggcggcaata atggcctcgg ttccggctcc 120

ggcgacgacg accgccgccg tcatcctatg cctatgcgtc gtcctctcct gtgccgcggc 180

tgacgacccg aacctccccg actacgtcat ccagggccgc gtgtactgcg acacctgccg 240

cgccgggttc gtgaccaacg tcaccgagta catcgcgggc gccaaggtga ggctggagtg 300

caagcacttc ggcaccggca agctcgagcg cgccatcgac ggggtcaccg acgcgaccgg 360

cacctacacg atcgagctca aggacagcca cgaggaggac a 401

<210> 39973
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-G11

<400> 39973

tccgcggacg cgaagatcac gtctgtcgga cgatggtccg tcttcggtgt agtggtagaa 60

ggatctgttg cagtcataga agcaccaata caaactagtg ccgaactgca ggaggaacac 120

gtacagaatc aggtggagga agctggttgc tgtgccaccg actcctgtgg cgcctgcgcg 180

tgctccaatg aggcgcaacc gtgtggccca gaccgatgtg gagatgcact tcgtgccccg 240

cagacctgtg gtggtgacgt tgttacaact cgccaggagg cactccagcc tacgctcgtg 300

aggagaagcg tagatggaac cacgaaagga agcgacagta ctgcggcgca ttcagcaggg 360

aaggaacagc gggtggaagt agtgactagg cgtggngtag atatcgacac g 411

<210> 39974
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G12

<400> 39974

gcaccacggc cgtgatccgc tacaagggct ccagcgcccc gccgccggcc aagctgccgg 60

agggccccag cgggtgggcg tggtccatca accagtgcag gtccttccgc tggaacctga 120

cggccagcgc ggcgcggccc aacccgcagg ggtcgtacca ctacggccag atcaacatca 180

cccgcaccat caagctcgcc atgggccgcg gcaaggtcga cggcaaggag aggttcgcct 240

tcaacggcgt gtcgcacgtg gacccggaaa cccccgtcaa gctcgccgag tacttcaacg 300

ccagcgacgg cgtgttcaag tacaacctca tcggggacgt gccgcccttc aacacggccc 360

ccaccaagat ggcacccaac gtcatcagcg ccgagttccg cacgttcatc ga 412

<210> 39975
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G2

<400> 39975

cggacgcgtg ggctacgcgt ggataacctg gtcatcaccg gcaagggaaa ccttgacggg 60

cagggcccag ccgtgtggag caagaactcc tgcaccaaga agtacgactg caagatcctt 120

cccaactcgc tggtgatgga cttcgtgaac aacggggagg tgtccggggt cacgctgctc 180

aactccaagt tcttccacat gaacatgtac cggtgcaagg acatgctaat caaggacgtg 240

accgtgacgg cgcccgggga cagccccaac acggatggca tccacatggg cgactcatgc 300

gggatcacga tcaccaacac cgtcattggc gtcggcgacg act 343

<210> 39976
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G3

<400> 39976

cccacgcgtg cgaattttac taatcaaatt cttgttggga tatattcctg caattcccct 60

gctgctccca acaaggcaac aacaatctgt tccggccgcc aaacaaaacc aaaaaaaaaa 120

cacactgaac ccaataatcc gatcccacag aaacttttct ctcggtccgt tcgatcgatc 180

gctgccgtgt cgtttgccag acaccatcag cacccaaaac catggcctgc aacctggctc 240

aatgcgccac cgccgccgcg gcgaccgtcg cgccccgcac ccctcgccct gctgcgtacg 300

cgtccgtctc cttctccgcg aggaagccgg cgggcggcag cctgcggctg cagcggcagg 360

cgtgc 365

<210> 39977
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G5

<400> 39977

aatcttgaag ctgcaaagca aattgcccgt gagttgcgct tgagggatat tggtggcatt 60

atcattgtgg attttatcga tatgtgagat gattcgaaca aaaaactagt atatgaagaa 120

atgaagaaag cagtagaaaa ggatcgatca acagttggtg tttcagaact atcaaagcta 180

ggtttgatgg aaataactag aaaaagggtc cgaccaagcg ttactttcat gatcagtgag 240

ccatgtacat gctgccatgg tactggtcgt gtggaagctc ttgacacatc gttttcaaag 300

atcgaacgtg aaatatgtcg acgtcttgct gcctctcgac gaaaatcaga ccctgagaaa 360

ccaaaatcat ggccaaggtt tctgcttaga gtggatcatg agatgtgcac gta 413

<210> 39978
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G6

<400> 39978

aactttcaat catggcggac gtcgatgtcg aaccggaggt tgccgccggc gctcccaaga 60

agaggacgtt ccgcaagtac agctaccgcg gcgtcgacct agatgcgctt ctcgacatgt 120

ccacggacga cctcgtccag ctcttccccg cgcgcgccag gagaaggttc cagaggggtc 180

tgaagaggaa gcccatggca ctcatcaaga agctgcgcaa ggcgaaaaag gatgctcctg 240

ctggtgagaa gccagagcca gtcaagacac atctccgtaa catgatcatt gtccctgaga 300

tgattggaag cattgttggg gtctacaacg gcaagacgtt caaccaggtt gagatcaagc 360

ctgagatgat cggccactac cttgctgagt tctccatc 398

<210> 39979
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G7

<400> 39979

gcacgaagct ccccggcatc accggggcga catacgcata cggagcgatc tactgtacct 60

ctccctatat tatccaaact ccagctcatc taattaaaca tgggggacct tacaaagaag 120

tgggggggatt catacgctga ctaacacctt tgtacctaga acgatggcca ccaccacatt 180

gctgaattca ttgt 194

<210> 39980
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F4

<400> 39980

gtccgcccat gcggcccaga aattagtatc gcaatttttt ctaccgacaa gtatacattt 60

ggagcgcctg ggtcgtgctc tacatgatgc tgtccgagac cctacccttt tcctgcgcca 120

ccgttgggga taactttcag gccttgctcc cgtataacct gcgcttcctt tgccaccccc 180

ttgctcgcct ttttcacctt gtcaacgacc ttcttcgccc cattctttgc atggactttt 240

ggcgcaagct ctacgccgag caagtcctga tgcaccca 278

<210> 39981
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-E1

<400> 39981

gctccggcaa gcccgtggtg gtgcacatca cggacatgaa ctatgagcct atcgcggcgt 60

accacttcga tttggcaggc acggcgttcg gtgccatggc caagaatggc gaggaggaga 120

agctgcgcaa ggcgggcatc atcgacatgc agttccgaag ggtcaagtgc aagtacggct 180

ccaaggtcac cttccacctt gaaaaggggt gcggccccaa ctacctggcg ttgctagtca 240

agtacgtcga cggcgacggt gacattgtgg cggtggacgt caaggaaaag ggctccgaca 300

cgtacgagcc cctcaagcac tcctggggcg ccatctggag gaaggacagc ga 352

<210> 39982
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-E12

<400> 39982

gtcgcgcccg aggtggtggc cggcagcgag tacaccgaga aggtggacgt ctggagcgcc 60

ggggtcgtgc tctacatgat gctctccggg accgtgccct tctccggcgc caccgcgggg 120

gagatcttcc aggccgtgct ccgtgggaac ctgcgcttcc ctccgcgcgc cttcgccgcc 180

gtctcgcccg aggccaagga cctcctccgc cgcatgctct gcagggacgt ctggcgcang 240

ctctccgccg agcaagtcct gaggcaccca tggattgtga ctcgcggcgt aagtgtgcct 300

ggcggtagac tggtttagat gctccgccgc atccgatgtg tacatagtgg cgtcctccat 360

ccaatccaag aggagtagag aaggaccttt tgcttgtgat ctcttcgcta tggttctggc 420

aaatgatcgt gaatttggac ac 442

<210> 39983
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-E2

<400> 39983

ctgggccaac agaccaaaga gctatcttaa aaggacatta ggttgggatc agtatcccca 60

tggacggtgg ggtgattctc ggaacccatc atatggagca cttactgacc accagttcac 120

aagaccacga ggccgtggta agaagctcca agaggaatgg gctgttccac tgaaatctgt 180

ggaggacatt agtgagcgct tcacaaactt gtgtcaaggg aaactcacaa gcagcccatg 240

gtcagaattg gacggtcttc aaccagagac aaagattatc gatgaccagt tggtgaatat 300

taaccagaag ggtttcctta caattaacag ccaacctgct gtaaatggag agaaatccga 360

c 361

<210> 39984
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-E3

<400> 39984

aggagaatga tgagttcagg atgcgagaag ctgacgccat gaagaaaata gaggagctat 60

ctgccctgct tgccgaagcc atgacaaaga agcatcccga ggaggaagag aagctggtgg 120

ttgttgatga ggcacacaat tctggacgtg aagctatccg ttctgtggca gaaaatgaag 180

atacagaaga aactgaccat aagaaaccaa agcttgaagc tgatgcagtc gatacgaact 240

ccaacggaga accgaagcac gacgagaaag acgacagcaa ggtggaagaa gaggagctga 300

agactgagct cagcctacag gagagcgaca gagctagctc tgagaaggaa gcacagtccg 360

aaaacaggag acaagaaaca gaaccatcca acgacgag 398

<210> 39985
<211> 411

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-E4

<400> 39985

gcggcgtcgg atgttgagta ccgctgcttc gtcggcggcc tcgcctgggc cacggacgac 60

cactccctcc acaacgcctt cagcacctac ggcgaggtcc tcgagtccaa gatcatcctc 120

gatcgggaga cgcagaggtc ccgcggcttc ggcttcgtca ccttctccac ggaggaggcg 180

atgcggaacg ccatcgaggg catgaacggc aaggagctgg acggccgcaa catcaccgtc 240

aacgaggccc agtcccgcgg cggccgtgga ggcggcggcg gcggcgggta cggtggtggc 300

cgtggaggcg gcggctactg cggtggcggg cgccgtgatg gcggcggcgg ctaccgcggt 360

ggcggcggct accgtggtgg cggcggccgc taccgtggtg gtggcggcgg c 411

<210> 39986
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-E7

<400> 39986

cagaaatcag ctcttggatc aaactcaagg caaggtcagc ttcctaagaa atagcgggcg 60

gtagcactct acttaggatc ggaggatcca taagccattt gccgaaggtt tactacagga 120

gttaaagaga tgggcgacaa gaaggcggtc accagctgct aattatgggc ctgcccacga 180

ccattttagt tgctgtcccc tggcactacc gggagggtgc catgccagga ttcaaccata 240

taaaggatcc gatcagtttg caactgggca gggggactgg tatacctatg acgacgctgg 300

cttcataccg gacagaacaa caggtattga aatcattgtg aaaaacaata aatggattgg 360

aggggtttat gagggaggga gggaaaaagc aaa 393

<210> 39987
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-E8

<400> 39987

cacccatcga gcccctagcg ccggcgcctg gccgtatgga ggctggtggc gaggagttcg 60

cgatcggcgt ggtgctctcc gcgaagacca ccctggggga ggagttcgag ggccagatcg 120

tcgccttcga tcgaccctcc aacctcctcg ttatccagga gggcgtgggg agggcggaga 180

gcggggagcg gcggaacgtg agggtgctga aggcgaacta catccgggag ttctctgtgc 240

tcagcaaggg agacgaccct ctcgatcctg ccggttgcat gctggacctt aactccattt 300

atgcccggga ggatgctgca ctcangcaag cggagattga agctgagaga attggtgttg 360

gtgtcacccc agaagctcaa aatatattcg atgcg 395

<210> 39988
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F1

<400> 39988

ccaagacaaa acatggctgt gaatgtgaga accatgtggt cgtcgatgcg ggcacaggtt 60

gcgatggttg tggcgttggt gttcttggtg agcggcgcat ggtgcggtcc tcccaaagtc 120

cccccaggca agaacatcac ggccacctat ggcaaggact ggctggacgc taaagcgaca 180

tggtatggca agccgacagg tgccggtccc gacgataacg gtggcggctg cgggtacaag 240

gacgtgaaca agccccccctt caatagcatg ggcgcatgcg gcaacatccc catcttcaag 300

gatggtctgg gttgtgggtc ctgcttcgag atcaagtgcg ataagcctgt ggagtgctcc 360

ggcaagcccg tggtggtgca catcacggac atgaacta 398

<210> 39989
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-F10

<400> 39989

atcagttatg gtgttggctc aactagcccg ctcagccctt cattcatttt ctccctggaa 60

cttgccagaa gcacacagct aaccgcatca ttctatcagc acctggttgt tcaaagaagg 120

gtaaaaaatc cttttgaaga tgatcaggtt gttggcatta caaactacat cgattttgga 180

cttgagttgg ctgccaaggt tgataaagat aaagtgagtg gggatggcaa ctcgtttcag 240

ttggctgcaa gttggcaagc taacaaaaac tttctgctga agggaaagct tggtccttcc 300

acgtcctctg tagctctggc attcaaatca tggtggagac catcctttac atttagtgta 360

acagctgtga atgatcattc aaagggcaca acatcgtatg gatttggcct ccgtgtcgag 420

gaccttanac gagcgagtaa ccacgagctg atccaaacta 460

<210> 39990
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F11

<400> 39990

ctcagcttca aggatgttca tcatcctcgc tggggcggga ggcgcgtcga gccagggttc 60

tgcctcccac gtgggccagt ggcccacttc tttctccagc attcgaggga ggagaggggt 120

tcaccagcca cgcgaaggag gcgaacttcg gctacgcggg gccggccagg tgcaggcgct 180

gacagctgcc gcgtgcctgg cacttggcct gggtggccct gccgtcgcct ccgacgttgc 240

cttctgccgt ttggccaggg catggctatc cgtccaccac acgggcgacg gtcacgccgt 300

acgtgggtcc gccacatcca cggcttctcc cgcgccgtcg gccgtacggg gggaccgtcc 360

aagatgtcgt acgctgcggg agtggcggcg acgttcttgg atggtcttgt cctcgct 417

<210> 39991
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F12

<400> 39991

cggacgcgtg gggacaaaca acactacact cagcctactt tgttcgaatg ctgaaatcac 60

cctggggttt ctcatgatca tctcgctttt ctcgtcgaga cgcaatataa tccagacatt 120

tatgtacttt catcttttga agttgatgta ccattctcct gtgacatctg gttaccacca 180

gagcgtgtgg gcaagaatag gccgggctgt aaacccgtac atttaccgct atgcgccatt 240

cctgaacaca cctatttcgg cagtccagag atggtggctg aggtaggaaa gcatggaccg 300

cagcacagtg aaaatatgcc taaacagcta ctctgatctc agcgcctcga tcttttagaa 360

ggcgtgcttg cacggcgtgt tcttttcttg taaaggttgg attctcagtt catgtcttac 420

tgagctactg aaggcataac actaggagaa tttcttacg 459

<210> 39992
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F2

<400> 39992

caaatctcat ctcctagcta gcaacttgat tcttcatatg tatatatatt gagcgggccg 60

ggcgtgaatt attcagtgca tgatgatgat ggtcatcagt agtctgctgc cgtggttggc 120

agctgctggt gtgggcgctg cccgatgaag atgatgttgt agacgagcgc cgcgatggcc 180

gcgcccgcga gtgggccgac ccaatacacc cagtggttct tccagacgcc ggtgacgacg 240

gtcgggccga aggagacggt ggggttcatg gaggcgccgt tgaatgcgcc cccctgctcg 300

gacattgggg cccttt 316

<210> 39993
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F3

<400> 39993

caccggccgt cgagcgagca gtctcccaat ttcacccaat aactaataac atctcctcga 60

acgccaggtt ccttggacca ctatatgcag gagcgacgaa atgatccacc cgccagccat 120

ggagatgaag aaggtcctct gcgccgccct cgtcgccgcc gccttggcca ccgacgtgct 180

ggcctcggtc gcctccgagg cgccctccga ggcgcccgcc ggcgcggccg gtggtgcggc 240

tggccctatc gcaagcggcg ccgccgccgc cgccgtgccc gccgccgggg cgctcgtcgc 300

cttcttcctc gcctactacc tgcactgagc gacgacgcgc ggggcggcaa cgttgggatg 360

catcgtgttt gggtcatccg attaattaat tggtttttt atttac 406

<210> 39994
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D8

<400> 39994

caaaatgtta aatatacatg ccatttgct tgttttccac tctttggaat tcggcataca 60

gggttagaat tgcctgctaa acgcgaaaca aaaggattac atatactaga attcagaagt 120

cttagtagta tatatggtta gcggagcatg ctctctcatg caatatatat aaacttaatt 180

agcttgctgc tgcaagttca tagcccaccg agccggatga attgtaggga attg 234

<210> 39995
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C2

<400> 39995

gaagatcctg actgaacgcg gctactcctt caccaccact gctgagcggg aaattgtcag 60

ggacatgaag gagaagctcg cctacattgc cctggactac gaccaggaga tggagactgc 120

caagaccagc tcttctgttg agaagagcta cgagctgcct gacggacagg tcatcaccat 180

tggtgctgag cgcttccgct gccctgaggt cctcttccag ccatccttca ttgggatgga 240

agctgctggt atccacgaga ccacctacaa ctccatcatg aagtgcgacg tggatattag 300

gaaggatctg tatggcaaca tcgtcctctc cggtggtacc actatgttcc ctggcattgc 360

tgacaggatg agcaaggaaa tc 382

<210> 39996
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C3

<400> 39996

agcagctgct ggggccttgc gtactttatc ctttaaaaat gatgaaaata aaactcagat 60

tgtgcaatgc aatgctttgc caactttgat cttaatgctg cgatctgaag atgctgcaat 120

tcactatgaa gcagttggtg tcattggaaa tttggttcat tcatcaccaa agatcaagaa 180

ggaggttctt aatgcagggg cactgcaacc tgtgattgga ttattaagct catgttgtac 240

agaaagccaa agagaggctg ctttgttgct agggcaattt gcttcggccg actcggattg 300

caaggtccat attgtgcaaa ggggtgcagt ctgtccacta attgaaatgc tacagtcggc 360

tgatgtccaa ctccgggaga tgtctgcttt tgca 394

<210> 39997
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-C4

<400> 39997

accaacactg tctggaaaac tggagtcaaa gtggagaccc agaagatgat gctggggacg 60

ttgagccccc agctagagcc ctatgtctac gagggcgaag aagagaccac ccctgctggc 120

atttttgcga gaggttctta ttctgccaaa ctaaagtttg ttgatgatga tggcaagtgc 180

ttcctggaga tgagttacta ctttgagatt agaaaggagt ggccaggaac tcaatgatgt 240

gtggaccagc atggctgact cgtcggagta tgttagagct catagctaag ccaagcacaa 300

gatgtggact catcttcaag aatgattttc attcgctact tcatctttaa tcgcatttta 360

atttgttttg aattgtcatt gtacgtcgtt tatgacatan aactgtttat tcatcacata 420

tataattcat gtatcgagat atatat 446

<210> 39998
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-C5

<400> 39998

gttatgttga tcatcaaaca ccaaaacact tgcagtgatt agggcattaa aacaaccaan 60

atagcgcana acatagtcac tgcagggctg aagcgtagaa caatccattg aagaccggaa 120

catgctccca aatcatcctg ctacaaaact tggtacagca aggtaacaaa caaaggtttc 180

acagtttgat gattttgaca aatgggactt tcgctgcacc gcagcacctt acgccttgag 240

cttaccaaag aacctctgct tctcatcggt agtctggaag cgaccgtgcc caaatttgga 300

cgatgtgtcg atgaacttga gcttgatctc ctccagcgcc agccgggaag tctgcttcag 360

gagggactgg cggagggtca ccaccctctt ctttggaccc acacagcatt cctcgatcat 420

cangtaggca cccttcacga taccatagtg ggg 453

<210> 39999
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-C8

<400> 39999

gtgggagcgg agtaataacc aaacaacggg gagagagaga gagagggagg aggaggagga 60

ggaggaggcc aggaggtttt cgttcgctcg ttcgccttgc ctggggacgg ggttgccgtt 120

ggcgccgtan aggtcccaga gctcctggac ctggccgacg agctggcgca gcgcggccac 180

ctcccccatc gccaggccgc cggcgccgca agcgcgcgcg cgccgncggc cttctcaccg 240

cgcccctcca ctgcctctgt cgctcgcccc ctcctctacc tcgtcttccg ggtcggggtc 300

gggccttccg gtcgcaccct ccctttccgc ttcgctaaat ggaca 345

<210> 40000
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C9

<400> 40000

gaagcgcctt gagatcacat tctctgaggc acctgtcttt gtggaccctc atgggcgtgg 60

gttgcgtgcc ctctccaggg cccagattga ctctgttctg gatcttgcac ggtgcacaat 120

tgtgtccgag ctctccaaca aggatttcga ctcatatgtc ctttctgagt caagcttgtt 180

tatctatcct ctgaagattg tcatcaagac ctgtggcact accaagctcc tgctcaccat 240

tccaagaatc cttgagcttg ctgaagagct gtctatgcca cttgctgctg tgaagtactc 300

ccgtgggacg ttcatctttc ctggcgcaca gccagccccc cacaggagct tctctgagga 360

agttgctgca cttaaccgct actttggcgg cctgaaatct ggtggtaatg cttatgtga 419

<210> 40001
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D10

<400> 40001

tgctgatccg aagagctagc gcgcgatggc caacaacctc ctccgtccgc tcgcgctcct 60

gctggccgtc ctcggctgcg cgctgtgtcc ccgcgccgat gccaccgcgt tcgaggtcgg 120

cggcgacgac gggtgggtcg tgccgccggc cagcgacggc ggcaggtaca accagtgggc 180

atccaagaac cgcttcctcg tcggcgacgt cgtccacttc aagtacagcg aggactcggt 240

gctggtggtg acggaggccg actacgacag ctgccgcgcg tcgcaccccg tcttcttctc 300

caacaacgga gacacggagg tgacgctgga ccgcccgggc cccgtctact 350

<210> 40002
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-D11

<400> 40002

gggaaagcaa gtttggattc catctctgat tcatggactt cttcaaaaga ccgtccaaca 60

ttaagtggtg tggcttcatg ggacgttcaa gattttcaga gatgggcacg agaaatgcct 120

atcggtgaaa gagtttcgtg ggcgattgga ggaatggttc tcacagctgg ccttattttt 180

atcagcaaaa gaaagagcta cagccatcac cagaagcaag ctgctattgc tcgcaatatg 240

agattgagaa ggctggattc tagagccaac ccacaacaaa caaagcggag ctaggaaggc 300

atangcaact tagtgttact cagaggattc ttggacttgt gcttctactt ttgtggatcg 360

gtataatcaa caactgtgaa caatagattg tact 394

<210> 40003
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D12

<400> 40003

gcaagcagca gcagcagtta cgacgacgac gacgacgaca tccaactccc agaaagccca 60

ttcacgtcgt cagccgtgcc gatgctgatg taatgggccg ggaaagggaa accaaggtcc 120

acttaattag cttcttttgt tacacaggac aggacaggac acaaaaacac cctcttttt 180

gttgtagata taaacaaatt aagggagtca cagtacacag agagagttgg tgttcttaga 240

atgcaggcac actggtgagt tttaaacaag ggtgccagaa ttacttatta gctgtgccat 300

aataataata ataataataa gatcgtcgc 329

<210> 40004
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D3

<400> 40004

ccagccgccg tcatgtcgaa gcgaggtagg ggaggttcgg ctgggaacaa gttccgcatg 60

tgactgggtc taccggtggc ggccacggtg aactgcgcgg acaacacggg cgccaagaac 120

ctctacatca tctccgtcaa gggcatcaag ggccgcctca accgcctccc gtccgcctgt 180

gtcggcgaca tggtcatggc caccgtaaag aagggaaagc ccgacctcaa gaagaaagtg 240

atgcccgccg tcatcgtccg ccagcgcaag ccgtggcgtc gcaaggacgg tgtctacatg 300

tacttcgaag ataatgctgg agtgatt 327

<210> 40005
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D4

<400> 40005

gatggacatc gccattggct ctggggcgcg ggacgagctg ttcggcaagg gcaacatccc 60

ggcgttcggc cttgccgacg tgttcgtctt caccgctggc cgcgcatgga tcattatgct 120

gccaaagccg cccacgacca gcttccggtc cgtctccatg ggaggaggcc attgatgatc 180

acaactgtag gatgcatggt ccactgtggt tcacgattct tttacctttg tgaggtggac 240

ggccaggtgt ttgttgtcaa ggccgcttcc gaggcctaaa ccggtgggct tatttctagg 300

ccggatcatg acgaacaatc tgattcgctg ggttgcaaag gaaaagtttt acacg 355

<210> 40006
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D6

<400> 40006

cccacgcgtc cgatcggtgc acacactgac agcccttgcc tgaagctcaa gcctgtctcc 60

aaggtaacca aaggaggtta ccttgaggtt ggggttcaaa catatggtgg tgggttgtgg 120

tacacatggt ttgaccgtga tcttactgta gctggtagag tgattatacg ggagaagaat 180

gatggcgcgg tctcttatgc acacaagctt gtacgggtac aggaaccaat tatgcggata 240

cctactttgg ctattcacct ggacaggact atctgctcag aaggtctcaa ggttaacaat 300

cagagtcatc ttgatccagt gctggctaca tgtatcaaga atga 344

<210> 40007
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D7

<400> 40007

ctaagatgga agcaaaaaat gcgttcaagt ccctgcttga gtcggtaaat gtggagtctg 60

attggacatg ggatcagact atgagagtca tcataaatga caaaagatat ggtgctttga 120

aaactcttgg agagagaaag caagctttca atgagtactt gaaccagcgc aaaaagtttg 180

aagccgaaga aaaacgtatc aaacagagga aagcacgtga tgatttcctt gcaatgttgg 240

aagaaagcaa ggagcttaca tcatcaacaa gatggagcaa agcaatactt atgtttgaag 300

atgatgaaag attcaaagca gttgagcgtt caagggagcg tgaagattta tttgagaact 360

atcttgtgga actgcat 377

<210> 40008
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C12

<400> 40008

cggagaaggg aggaaggaga tcgcgaccag ccggagccgg aggccgagag gatgaagacg 60

ttcgacccgt ggccggtctt cttccgccgg gagtggaagc gcaactggcc cttcctcacg 120

gggttcgcca tcaccggctt catcatcacc aagatgacgg ccaacttcac cgaggaggac 180

ctcaagaact ccaagttcgt ccaggaacac aagaagcgct gaccaaccgg gtggagtcgt 240

ccgaatcgcc tgcggatgaa aaattagccc tctatttttc ttgtcttttt tttttatcta 300

gatgcgtgca ctctattgta ataatgtaat aagaggcaat tggattgatc caacagcaac 360

cggcttctga ttttgatccg cttcgctgac atatgcatg 399

<210> 40009
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A9

<400> 40009

cggacgcgtg ggcgctcctc tccccatcct gcacgctcct ccgcctgatt cccagcgcgt 60

cgcacatctg ctgctcgtcg cacttcaaga gattcgatcg ggttcgccgg ttcgcgcccg 120

ccgccatggc gacttcctca ggaccaaagg aggcgccagc gaataaccct gggctccaga 180

ccgaggtcga ccccgccacc aaaggctact tcttgcaaca aacgatgtta cgtgtgaagg 240

acccaaaagt gagccttgac ttctactcac gtgtgatggg catgtcgttg ctgaaaaggt 300

tggattttga agagatgaaa ttcagtttgt attttctagg ttacgaggat gtgaccttag 360

cccctgatga tcatatcaag cggactgaat ggacttttag gcaaaaagct actcttgagc 420

tcacccacaa ctggggcacg ggaaatgacc ctgaat 456

<210> 40010
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-B1

<400> 40010

aaaaatagga gttgcaatgc ctttgatgcc ccattcatct gtttttgcat gtccttgcct 60

tggatttgct gtgagaactt ccatatatag catcagatgg cttaaatgcc atagcagatt 120

aatatatgaa actttcctct caagcagaag acatcaaagt aaacttctta gtacaacagt 180

tctagcaaga agcacaagaa aagtaagcag tcatttagca atagtcatca ttttgcatgg 240

gaaatcagtt gaatcatcaa ttgaagtgta catgcagtca gagtttgaac agcttaactc 300

acttcattgc tacaatgttg tggaagagtt ttctgtagtc aagactaaat ggcctgcaac 360

tgtccttgtt ttttatattg aaactacaag cttctcacat tgtgatgaca gaattattga 420

gttttcagtt ccgtgatctt atgaangg 448

<210> 40011
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B10

<400> 40011

gttttacagc ctaaatactg gtgctctgct ctacatgata ccattggggc ttacttactc 60

cataagcaca cgcgtttcca acgagcttgg cgctgggcag cctcaggccg cgaagatggc 120

agcaaaggta gtcatgtaca tggctttgtc tgaaggactc gttatatcct tgacgatgac 180

cctgctacgc aacatttggg ggtacgtgta cagcgacgag gaggagatcg tgacgtacat 240

ctctaagatg ttgccgatcc tcgggatatc tttcttcata gatgggctcc atagctctct 300

ttcaggggtg ctcacaggct gcggaaagca gaagatcggc gcggccgtta atctcggaac 360

gttctacttg ctaagcatcc cagtggctgt actggctgca ttcgtcttcc atctcaaccg 420

gaatgggccc cttggcttgg ca 442

<210> 40012

<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B12

<400> 40012

cgctctctcg gcggaagttg gcgacgactg ggcgaccgcc gccgccgtac gccaggtgct 60

caggtctccg tcagaccctt cgccaggtct tcttccgcgg cgagcaccgc caggtgtgca 120

tccaatcttc ttcactgggt cctccgctgc ttctagtcac gcatctaaat ccggagttgc 180

cagcattcgc ttgaggtgcc tgacaaagca caccatcatg caggctagcg ataggttcaa 240

cataaactct cagcttgagc atcttcaagc caaatatgtt ggtacagggc atgctgattt 300

gtctagattt gaatgggctg taaacatcca gagagacagc tatgcctctt atattgggca 360

ctatccaatg ctagcatatt ttgccattgc tgagaacgaa tcgatcgg 408

<210> 40013
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B2

<400> 40013

gctactatgg aagttcagga agcatttgtg aagatatgtg aacaagctaa ggcttactta 60

gaaatgaaag gagaactagt cagtggtctt aacttaatca ataataccaa tttagaattt 120

ttccctgtga agaacaaagc agaaatattt cgtctgagag gtgattttct gttaaaaatg 180

aacgaatgcg agactgcaaa tcagtcttat tcaaatgcca taactctttt taagcatttg 240

cccaaaggat ggattagctg gggaaattac tgtgatatgg tttttaaaga aacaaaagat 300

gaggtttggc ttgagtatgc agtcagttgt tttttccaag gcatcaaata tggagtttca 360

aactcaagga gccatctagc tcgaattctc taccttctta gctgtgatgg acaaaatgaa 420

cctgttggaa 430

<210> 40014
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B3

<400> 40014

caactcaata tagcttggtc atgtattttg tcacaaatac cttgaagaag ggatcattac 60

tacaacgttt ttttgatggc gatgatgaat tctgcaatag cagactaaag cttataccat 120

ccgttcccaa gggctcctgg ttagtgcgac agagtgttgg aagcaccccct tgtctgttgg 180

gaaaggctgt tgattgtagt tacgttcgag gtcctgcata cttggaggtg gacgttgaca 240

ttggatcttc ggcggtagca aatggagttt tgggtcttgt ttttggtgtg gtgacaacat 300

tagtagttga tatggccttc ctaatacagg ccaacacata tgaggagcta ccggagcaag 360

tgataggcgc agctcgactg gctcatg 387

<210> 40015
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B4

<400> 40015

agcggccatg gcctcgattc cggcgacgac cttcgccgtc atcttatccg tcctcttctg 60

tgccgcggct ggcaccgccg tcgacaacga cctccccgac tacgtcatcc agggccgcgt 120

ctactgcgac acctgccgcg ccgggttcgt gaccaatgtc accgagtaca tcgcgggcgc 180

caaggtgagg ctggagtgca agcacttcgg caccggcaag ctcgagcgct ccatcgacgg 240

ggtgaccgac gcgaacggca cgtacacgat cgagctcaag gacagccacg aggaggacat 300

ctgcgaggtg gtcttggtgg agagcccgcg caaggactgc gaccaggtgc aagcggacag 360

ggaccgcgcc ggcgttctgc tcaccaggaa c 391

<210> 40016
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B5

<400> 40016

cccacgcgtc cgactgtggg gaggctggtg atatcgatca ccttgctgca gcatttctta 60

cttcacataa cattgctcat ggggtgaacc taaagaaatc ccctgtactt cagtacctgt 120

attatcttgc tcagattggt ctagcaatgt ctcccttaag taacaactca ctgtttatcg 180

actatcatcg gaacccttc ccaacatttt tcttaagggg tcttaacgtg tctctttcga 240

ctgacgaccc tctacaaatt cacctgacga aggaaccttt ggttgaagaa tacagtgttg 300

ctgcttcact ttggaagctg agctcatgtg acttgtgtga aatcgctaga aattctgtct 360

accagtccgg attctctcac aagctcaagt ctcactggat cgggagaaac tactacaaga 420

agggtccgga gggcaatgac atccaacaga caaatgtttc 460

<210> 40017
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B6

<400> 40017

cgctctctcg gcggaagttg gcgacgactg ggcgaccgcc gccgccgtac gccaggtgct 60

gaggtctccg tcagaccctg cggcaggtct tcttccgcgg cgagcaccgc caggtgtgca 120

tccaatcttc ttcactgggt cctccgctgc ttctagtcac gcatctaaat ccggagttgc 180

cagcattcgc ttgaggtgcc tgacaaagca caccatcatg caggctagcg ataggttcaa 240

cataaactct cagcttgagc atcttcaagc caaatatgtt ggtacagggc atgctgattt 300

gtctagattt gaatgggctg taaacattca gagagacagc tatgcctctt atattgggca 360

ctatccaatg ctagcatatt ttgccattgc tgagaacgaa tcgatcggaa gagaacgtta 420

caatttcatg cagaaaatgc t 441

<210> 40018
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B7

<400> 40018

gcctggtgtg gtcctcccaa ggttcccccg ggtaagaaca tcacggccaa atatggtagt 60

gattggctag atgccaaggc gacatggtat ggcaagccga caggtgctgg ccccgacgac 120

aatggtggcg gctgcgggta caaggacgtg aataaggccc ctttcaacag catgggcgcg 180

tgtggcaacg tccccatctt caaggacggt ctaggttgtg gatcctgctt cgagatcaag 240

tgcgacaagc cagcaaagtg ctctggcaag cccgtggtgg tgtacattac ggacatgaac 300

tacgagccca ttgcggcgta ccacttcgac ctagcgggca ccgcgttcgg tgccatggcc 360

aagaagggtg aggaggagaa gttgcgcaag gcgggcatta ttgacatgc 409

<210> 40019
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B8

<400> 40019

cccacgcgtc cgggaaatcc actcgttgat gagcagctag tgctcctgat gtactgcctg 60

ggtacagtgg ctctgtacat gcggtttgct acatcactta ttcatgagat caccaatgca 120

ctcgggatcc actgcttcag gatcactagg aaaaaggcat agttcctccg tccacgggca 180

tcaacgttgc cctggattgt gtaatcaatc acaactcaca aggtggagcc tgacagacaa 240

gcaatttttc atatttaatg gatgctgctt cctgaatact cacatggatg acgccccccc 300

ccccgtccct gtggggcgtt ataatttaaa t 331

<210> 40020
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B9

<400> 40020

atttattgtg aagtggaatg cacatgtgga tgccagtttt gttttaattg ctccttacaa 60

acacactcac catgttcctg catgatgtgg gagctctgga ttaagaaatg ccatgatgaa 120

tcagaaacag tgaattggat aactgtaaat actaagccct gtcccaagtg tcacaaacct 180

gtggagaaga atggtggctg caacctggtt gcatgtatat gtggacaagc attctgttgg 240

ttatgtggtg gtgctacggg tagagatcac acgtggtcaa gtattagtgg ccacagttgt 300

ggccggttca ctaatgatca gactaagaag accggacaag cagggaagac ctctatagat 360

atatgcacta ccacaacaga tacaag 386

<210> 40021
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C1

<400> 40021

tgaccatcca ggtggatggc aatctgctgg cgaccacgga cctaagccag tacaaggacc 60

atggtaattg gatcgagatt ctacgcgtgg ataacctggt catcaccggc aagggaaacc 120

ttgacgggca gggcccagct gtgtggagca agaactcctg caccaagaag tacgactgca 180

agatccttcc caactcgctg gtgatggact tcgtgaacaa cggggaggtg tccggggtca 240

cgctgctcaa ctgcaagttc ttgcacatga acatgtaccg gtgcaaggac atgctgatca 300

aggacgtgac cgtgacggcg cccggggaca gccccaacac ggatggcatc cacatgggcg 360

actcatgcgg gatcaccatc accaacaccg gcattg 396

<210> 40022
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-C10

<400> 40022

cgcacgtggg catgtacctg gtgtcggtgc gcatcggcac gccggcgctg ccgtacaacc 60

tggttttgga caccgccacc gacctgacgt ggatcaactg tcgtctgcgg cgccgcaagg 120

gcaagcacta tgggcgacag tcgatggggc agacgatgtc ggtgggcggg gaaggcgcga 180

cggcggcgaa gaaggaggcg agcaagaact ggtaccggcc ggccaagtcg tcgtcgtggc 240

gcaagatccg gtgctcgcag aaggagtgcg cggtgctgcc ctacaacacg tgccagagcc 300

ccagcaaggc agagtcgtgc agctacttcc agaagacgca ngacggcacg gtgacgatcg 360

gcatctatgg caaggagaag gcgactgtga cggtgtcg 398

<210> 40023
<211> 407

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C11

<400> 40023

ctgaagattc tcattcaggt ccattttcat tgttgggaag agtttcagag ttgaaacctg 60

actttttat cagaatggga gatgtgaaaa gagtttacca tggagtaagc agagtatctg 120

tagtctgacg ctccaaagtt gatgccatca aacacgaagg ccagggaatt gatggtctgc 180

gtcccggcga caaactgaac cgagataaaa gatgtctaat tcagtgtctg aatcttgtga 240

aatgcttgcg tatggagcgg cgttgtttcg atagccaggc cagggcacgt ccttaccggg 300

atgcctctgt gaatgacttg gatcacgggc acgtcgcttg tgaaaatgcc agccccgaac 360

ctcatagcaa gtcccagcac gacggtgaga cccatgccca ggacaat 407

<210> 40024
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A8

<400> 40024

cttccagagc cccccgccgc cgctgcgccc tcctctcggt cctgccgtcc gtcgaggtag 60

aaggacagca tggtgagggt gggcgtgctc aatgatgctc tcaagtccat gtacaatgct 120

gaaaagatag ggaaacgtca ggtcatgatc aggccgtcat ccaaggtgat catcaagttc 180

ctgacggtca tgcagcgcca tggctacat 209

<210> 40025
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H2

<400> 40025

tcacaatggg tttaggagga gagggctatc ttaatttcat gggaaatgag tttggacatg 60

ctgaatggat agattttgca agaggtccgc aaagacttcc aagtggtaag tttattccag 120

ggaataacaa cagttatgac aaatgtcgtc aaaaattgac cttggggatg cagactatct 180

taagtatcat ggtatgcaag agtttgatca ggcaatgcaa catcttgagc aaaaatatga 240

attcatgaca tctgatcacc agtatatttc ccggaaacat taggaggata aggtgattgt 300

gttcgaaaag ggagatttgg tatttgtgtt caactttcac tggcacaaca gctattttga 360

ctaccggat 369

<210> 40026
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H3

<400> 40026

cccacgcgtc cggccaaacc tgacatcagc ctattacaag cgtcagtaga gatcttccag 60

ggggccatgg ccaagccccc gggtcagacg gccgccatca tcttcctcgt gctcctcgcg 120

accgcgtcgt gcctccacac cgtcgacgcc gccgctttag ggttttgctg gggcaagtgc 180

agcgctcggt gcgcgcgggc aagcgcgcgg cgggcgtggg ccgcgtgcat gagctcatgc 240

ggcctctgct gcgaggagtg caactgcgtg ccgcgcgaca tccatgactg cccctgctac 300

agcaacatgt tcaccaccgg ccccaagaag atgcccaagt gcccctgaga ctgagactgt 360

gaggccggct cacactgcgg catccatggg actgcgactg ctgcctacaa ctacgatccg 420

atccatgctg ggccagacaa ccagttatgc atgttat 457

<210> 40027
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-H4

<400> 40027

tgaagacaat gacccattgg atgtgttggt cctgatgcag gagcctgtta ttcctggttc 60

ggtcctgcga gcaagagcaa tcggccttat gcccatgatt gaccagggtg aaaaggatga 120

caagataata gcagtctgtg ctgatgatcc tgaatatcgt cactacaacg acatcagtga 180

gctgtctcct catcgcctgc aagagatcaa gcggttcttt gaagattata agaagaatga 240

gaataaagag gttgctgtcg atgcattctt gcctgcgacc acagctcgag aggccattca 300

gtactccatg gatctgtatg cgcagtatat tttgcaaagc ttgaggcagt agattggaag 360

caactattta tctgggcgtc ttggaatgag tgtgattnta ataagtcaaa acacttgata 420

<210> 40028
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H5

<400> 40028

gtgcgcgccg cggccggatt cccggtcggc gcacgcgtac gggccaagga gcatgctatg 60

cggatccctt tatttggaag cgctatgctt ttatcactgt tgcttctatt caagtttctc 120

tcaggagatg tggtcaacgc tgagctcact gcctactttt tcattctagg cattgttgct 180

ctctccgcaa cactgcttcc ttctataaaa cgttttcttc caaaagagtg gaatgataat 240

ctcatcgtct ggcgggctcc attctttcac tcactctcgg tggagttcac aaagtcccag 300

attgttgcct caatacctgg atttttcttt tgcttgtggt atgcgtcaaa gaagcattgg 360

cttgcaaaca atgtcctggg attggctttc tgtattcaag ggattgagat gctgtcattg 420

ggatcattta aaactggagc cattctctt 449

<210> 40029
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H8

<400> 40029

atcgtttaag aaattcgccg cttgatgtgt ggatccgtcg cggctgccgt caagcataga 60

caccaagaac cagacctcgg ggtggggcat cggggtcgcg gaggtctact ggatggggtc 120

aagaagtatc cgggcaagtc gtctctggga accctgctta ttgctcgccg gatgctagcg 180

ccgccgtgga ctgcgcggct ccgagaagtc gaggtcgtcg cgacatatcc caggaacctt 240

cggacttgga acgaagctgt ccataatatg gaaagcatga ttgggacgaa ggtcgaatca 300

attctgaagc tatgcgcaag gaag 324

<210> 40030
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H9

<400> 40030

ctcacgtcaa gggatgatga tgattccctt gtaccaagtc cccttatgct caaaagtgaa 60

aatgtgcaag aggatggggt ctatttgttg gaaaacggtg aggatggtct agtctacgta 120

ggaaatatgg taaatccggc taccctggaa caaatattcg gtgtctcttc tttggctgca 180

ttaccagccc agttagcatt ggagcagttt gacaacgaac tctctgagga agattaacga 240

agttgtaaat gaaattaggc gccagaggtg ctcatacttg aggataagac tatgcacaag 300

gggcgaacca tctggtgatt ttttccggtc atttctaata gaggacaagg cacctggcgt 360

cttctcctac gacgagtttc tcgtgcatgt gcacaggcag atccaaagca agatgacctg 420

agggccaggc gaatgcaagg caacatgaac t 451

<210> 40031
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A1

<400> 40031

gtttgtttta tctgtatatt gaacatgctc attccctggt tactagagat ataaaatgtg 60

ccgatatcct atttgatgca agcggactgg tcaaattggc agattttgga cttgcaaagg 120

agatgtcaat tttgagccag gcaaaatcta gcaagggaac tgtctact 168

<210> 40032
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A10

<400> 40032

gaagagagca acaaaaatta ttcatctcag ctaaatggtt tcatgaagtg gttagaaaga 60

gaactgttgc agttcggctt ccattctgag agtgccaatg attatgatta cactcaattt 120

cctgtctata tggatatgtt ggacaaaaaa ataggatctc tgatagccga atcagatgat 180

ttaagggtta cagttcaaag caaagattct ttactacagg ttgagagggc caaaattgag 240

gagttgatgc gtaaatcaga tggtctagaa gcttcattga gccaaaagga ttcccagata 300

gggttacttc gccgggacag agcatccaat cagcagagca gatctataaa tttgcctggc 360

acttcagaga ttgagcaaat gaatgacaaa gtaagcccag ctgcagttgt cactcagatt 420

cgaggcgcac g 431

<210> 40033
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A11

<400> 40033

tttcctttaa tacactggcc ttactttgcc ctttccttga cagaggtaca ataagatacg 60

ctagtgtcca tgcacattta ggacgtactg gtagcagaag ggatgatctg gaatcattag 120

catatacatt gatatttctt cttagaggaa ggttgccgtg gcaaggttat cagggcgaga 180

acaagagttt tcttgtttgc aagaagaaaa tggctacctc tccagatcta ttatgctgtt 240

tttgcccaac tccattcaaa cttttcctgg agactgtgac aaacatgaaa tttgatgaag 300

aaccaaatta ctcaaagctt atttcccttt tcgatgaatt gattgagccc cagcatttga 360

ggcctattag aattgatggt gcattgaagt tttttttca ctacaagaaa tgacatttct 420

attttgtata caatta 436

<210> 40034
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A12

<400> 40034

ccgagaggtg aaccagcagc ctccaataaa agccagcaca tccaaataaa accgagagac 60

ctcagccctc atgcaagccg accgccgacg taccaccgcg ccaacccgag agaaagatgg 120

agatgatcaa gaggatcctc atcgccgcgc tcctcgtagt cgccgtctcg gccaccgcag 180

tgctggcctc caccgaggcc gccgccgccg gcgccccagc cgtctacgag tcgtatgcgt 240

gcgccgaagc cctcgatggc gccgtcggct ccggagtcgg ac 282

<210> 40035
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A3

<400> 40035

caataagatg gcgtgtatag acaatgcaat gagagcctcg ttccttttag cgctcttctg 60

tgtcgtgcat ggtgagaagg caaagtcaaa ggacaacgat gcaaaagcgt ccgggcccgg 120

tgggtccttc gacatcacca agttgggcgc ctccggcaat ggcaagacgg atagcacgaa 180

tgctgtgcag gaggcgtggg catcagcgtg cggcggcacc gggaagcaga cgatcctcat 240

ccccaagggc gacttcctcg tcggaccact caacttcaca ggcccatgca agggcgacgt 300

gaccatccag gtgaatggca atctgctggc gaccacggac ctaagccagt acaaagatca 360

tggtaattgg atcgagattc tacgcgtgga 390

<210> 40036
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A5

<400> 40036

aatggaggca gacatacata gtggtgatgc ggtgaagaag gagcttcatc aagtgcatat 60

ggaggcaaag agacttatta ctgagaggca gatgctgacc cttgagacag aggatgtgaa 120

taaagaatta cagaaactct ctgcctctgg tgacagtaaa agccttcctg aattgctagc 180

tgagctagat gggctaagga aagagcatct taatttacga tctcaatttg aatttgagaa 240

aaatacaaac atcaagcaag ttgagcagat gcggacaatg gaaatgaact tgatgaccat 300

gactaaacaa gctgagaagt tacgaggtga tgtggcaaat gctgaaagac gggcacaggc 360

agctgtggct aaagcaacag ggcatgcagc tggtgca 397

<210> 40037
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A6

<400> 40037

gtcgccatct ccccaccacc tcgtcaccgc agaccatgcc cccacggggc ccccgcgcgg 60

gcgtggccta ccggtgaacg ccgggcggac acacgggacc gcgcagccgg cgagcacggg 120

atcgcacatc acgggcgcgg ccaaaatgcg ggagccgtgc gctgcgaagt gcggaagcgc 180

ctgttaattg ctctccctcc agtgccgcgc agtgcgcaca gggttttagg aaggggcga 240

caccggtatc gccattcgcc agccatggaa tccgcaacgg cggccgtccg cagcgcgtcg 300

ctagcccggg cccgggccgc gccgctcgtt cacaggcgcg cgcgcggggc gggtcgcgt 359

<210> 40038
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A7

<400> 40038

ggctgttcca gcgtgatgat gaccctggcc ccgtgcatgg acttcatctc cagcaaggcg 60

gggggacccg ggaatctctg ggggttcgtt cctgcccgaa tccggccaaa ccaaccccgg 120

ttgctctgca tggtactgga cggcactgcc acgtgcttcg gcattgccat caaccaaacc 180

agggcgctgg agctccccgg cgtctgcaag gtcaaggcgc cgccgctcat ccagtgcaca 240

ggcgtccctg cggcacctgc accgacgcct ccggacgagc cagcagcggc agcggaagat 300

gaagaagccg acgcagctgc agatgcccct tcagcaaatg gagcctcaag ctccacaaac 360

tcaaagaatg cagcgagctt actgcttctc atctgcgcat tgctgtatgc cttctaataa 420

gtggtgatac aac 433

<210> 40039
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H11

<400> 40039

gcctctcgag agtgtgagcg tcaactctat tccaactagc aaggaggata tccgtgatct 60

tggtcctccg gataagggtg ccgaggctct tattaaaaaa gttttggcac catcaacaca 120

aaagacaaag ttaattgagg cgaaagagaa tgatgttgat gggagggctt actacacttt 180

tgagttcaca gctcaggctc caaactacac aagacatgca cttggtgcta ttgtaattgc 240

aaatggcaaa ttttacacat tgaccactgg agcaaacgag agaaggtggg aaaagatgaa 300

ggatacgctg catactgttg tggattcctt caaaatcgaa aatagaatat gagtgcctga 360

attgctgtgc tgtttttcct tcggtga 387

<210> 40040
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-F5

<400> 40040

cgctgggctc cggccgccgc ccgtcgctgc ggcagcgtcg ctccgaggcc gtcggtttgc 60

gtcggtgccg ccgctcgcgg cttcccattc ggtgcggtcc gtgtcccgcg cggttaagaa 120

taaagcaagt gcaatctatg acctccaaag gaatagaagt aaccttgaat cgttattctg 180

ctacgacaaa tctgtcccag aggagaatat tggaaaaccg tccggtctag atctggaaaa 240

gaaggatgtc gggggcaacc ctccctgctc aagctgtgaa gctaaaggcg ctgtgctgtg 300

cgcaacatgc gctggttcag gcttgtacgt cgactcgata ctagagagcc aagggatcat 360

cgtgaaagtc agatgcctag gctgtggaag aactgggaac atcatgtgct ccaagtgtgg 420

aggcccgggg catacctgaa tgataaaaag cttgg 455

<210> 40041
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-F7

<400> 40041

cgtctctgta tgccagtggt cgtaccacag gtatcgtgct cgactcggga gatggtgtca 60

gccagactgt ccccatctac gagggatacg ccctccccca cgccatcctt cgtctcgacc 120

tggctggccg cgacctcacc gactacctca tgaagatcct gactgaacgc ggctactcct 180

tcaccaccac tgctgagcgg gaaattgtca gggacatgaa ggagaagctc gcctacattg 240

ccctggacta cgaccaggag atggagactg ccaagaccag ctcttctgtt gagaagagct 300

acgagctgcc tgacggacag gtcatcacca ttggtgctga gcgcttccgc tgccctgagg 360

tccttcttca gccatccttc attgggatgg aagct 395

<210> 40042
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-G1

<400> 40042

gttgccatag gcaatggcaa cagctcgccc ttgtcttcct tgaaggagct gtttttgggg 60

aagtgatgaa ccgtcggcaa ccttgtttct cttgcacttt aagcagctaa ctgttcccgg 120

gtaggacgct ctcctgcaat aaatcatggt agctgttaag aacggtggtt cagttgctct 180

catatggtct gaagaaacgg tgcttcagtc tttagcattt tgaggaggaa acgtgaaact 240

tactggtcag ctgaaagcta taaacattgc catggccctg gactggaagc cccaactttc 300

ccaagcctgt agaaagcgcc atgtgcctct acagaagcca ccgcgtgatg accagcttca 360

tccggca 367

<210> 40043
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-G10

<400> 40043

ctatgagaga tacccacaag tggaattgta tcttaaatcc aaccaaatga agggcttcca 60

cgatctactt aaagactggg atggtagctc caaggagttc aaagaactgg acatcgaaca 120

gttcaaaagg gcccttgctc aagtggactc tcaagtcaag atgctcccag caacagctca 180

ggttgctgca caagagggaa gttacctagc ggattgcttc aacagaatga agacgtgtga 240

agaatatcct gagggtccta taaggatcag aggtgcaggg cgccatctgt tcaaaccttt 300

caggtacaag catcttgggc aattcgctcc actgggggga gagcaaactg cttaccaatt 360

ggcacgggac tggg 374

<210> 40044
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-G11

<400> 40044

atcgacgcca tgcttcacca gaccggaggc agcgttccta gcaccaccta aaaacctcgt 60

tgtgctctcc gtcctgcgtg gtagtaaaca aaagggaaaa agtcttttta aggaacttgt 120

gatgctctgg ctccttgtgc cattgctgag ggacatcctt agcctttgtt tagtagtatg 180

gtttggtact ttgttctgtc atcactcgtt tatctatccc taatacatgc cgccatgatt 240

gtactcccaa tgacgcgcag atcatttgct ttgttttgtc tgctcgaacc tcgaagtcgt 300

ctatgctttt cagattattt tgggcatgtt tttaatt 337

<210> 40045
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-G12

<400> 40045

gatcaatgag attgtgaacc gcttgaataa gacaaaggtg gaacggaaac ctgattgaaa 60

ggctgaaaga gaggctatga gtgctgctga aaaggcagaa agaaaggcac agcttagaga 120

caagaaacgt agggaagaga tggagaggct tgagaaagag aagcaggctg atatcaggag 180

ctacaagggt ctaatggtcc aagagaagat gacttccaac aagcaaatcg cttctggcag 240

caagaccctg caggaacttg aagaagactt tatgtgagag gcggacatta taaatgccat 300

gctgaagatt tccttgaact gcttctgtcg aagacagaag gggtaccaca ggcttgtgag 360

atactggatc taaatgactc atgggc 386

<210> 40046
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-G3

<400> 40046

caaaaatagg cgaacttttg gatctggatg tgtgcatgga aattttggac attctgtatg 60

gaacggaaga tacctgggac tttttaattc tccctgctca cttgctgctt ccactcttgt 120

tgctgcatat gctatatcag ttcctaagca aacatgggag tttcccatcc ttccttgggt 180

caggtttgct acatcatacg atgaagagga aatcatgaag attgttctga caattctcct 240

gcatgtgctt aaactggatg gtatcgaaga gaagggcaag ggacgttttg atgccagatg 300

tttgtcgtga gtatgtgata tgtagagcac gagattgtgc cccaattttg ccttttgagt 360

tctgaacgta taaccatcta actgaccgag ggcagcagat acatgctttt agaagacact 420

gtagctagtt ttttgacagg cgggtt 446

<210> 40047
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-G5

<400> 40047

cgctttcccg ttccccaccc cgaccgactg ttttccctcc cccgcaccag cctcaaagca 60

tcgccggcgc cgcaacatcg ctgaggaagc ccgcaccccc gcccggatcc gatggccaac 120

agcaacctcc cgcggcggat catcaaggag actcagcggc tgctcagcga gccagcaccg 180

gggatcagcg cgtcgccctc ggaggagaac atgcgctact tcaacgttat ggtccttggg 240

ccggcgcagt cgccctatga aggtggagtt tttaagcttg aactcttttt acctgaggaa 300

tatccaatgg ctgccccaaa ggttaggttt ctgacaaaga tctatcattc caacatcgac 360

aagcttggta ggatatgcct cgacattctc aaagacaaat ggag 404

<210> 40048
<211> 365
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-G7

<400> 40048

gcagttggga catctgtgaa cccatcgtca gcaaatgtaa gtcgctcaaa gaagcgcaag 60

ggcagagttg aaggagcagg aggcaacgac acatgggttg ccaagggtca ttaacttctc 120

agccatcaac atctaggatc ctgtggtcaa ccttttggca ttcgattcgt cttggtacct 180

ctgcctgtca tgttgtttgc tcaaaccact gcatatcgtt gtaggttgct tttttaacct 240

taactttaat tcgtaaccac tgcattttgt aactgcataa caattcggct ggatcagttt 300

ccaccaaaga tataacgaac gaatggtaac agcctttatc ttanaaaaaa aaaaaaaaat 360

aaaaa 365

<210> 40049
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-G8

<400> 40049

cttggttcct ggatcaccaa attttggtac ctacgtccac agcaagccaa gccaccataa 60

tcgagagaga aactgagcga gagagacaag ccccaacaat ctggccacga ctgagggtgg 120

cgatcatcgt cattaaatgg cgaaattgct gctaccttca atttgacgta agagaccgcg 180

gtcagggaga attcctcatc ggaaactttt cctcgctgcc attctacatc ccactgcaga 240

ctgggcacga cgtgcatcgt tgccggtcaa gaacaggtac cgcaagatga ggcgcatgga 300

ggatgttgcg atgagttcgt gagaggtcta ggccgtcgtc tcccagtcaa ctttgggttg 360

ctggatcggt tcctcatatg atgtaactna ttaattattn tgtatagaac ntcctgtata 420

tagtaaagat gtgatattcg atcc 444

<210> 40050
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-G9

<400> 40050

aaaaaaaaaa aaaaaaaaaa aaaaaaaaat aatttattaa taataaaaaa acaaaaaaaa 60

aaagaaagaa aaaaaaaaaa aaggggaggg aaaaaaaaaa aaaaaaataa taatttaaat 120

aaaaaaaaaa aaaaaaaaaa atataaaaaa agggggggccc ccttttttaaa tgcaaatttt 180

ttttcccccc tttttctaca aaatattttt ttttttttttc cctcaaaaaa aaataatcgc 240

cccccgcttt taataccccc tcctttgaaa aacccccctg tccccccaat tatatccttt 300

ttaaaaaaaa tccctttttt a 321

<210> 40051
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H1

<400> 40051

gtcggcgttt ggggcggcgg cgtgactggc cgctggtcgc ggcgcgcgtc cggcctggtg 60

ggatcccttc ggacttccgc agattcccgc gcgggggtgt ttgatttgga tgagaggagc 120

gcggcggcgg gatggggacc ccttcgcagg gctcggcgac cgtgacggcg gcccgggtcg 180

acctctgcgc gctcgacctc atgcccgtct ttgccaagga gatgatcgcc ggcggcgtcg 240

ccggcgcctt ctccaaaacc gccatcgcgc cgctcgagcg cgtcaagata ttgctgcaga 300

ccagaacaaa tgagtttggg tctcttggag ttctcaaatc attgaagaaa ctgagacaac 360

ttgatggagt catggggttt tacaaaggaa atggtgccag tgtgatgaga attgtcctta 420

tgctgcatta catttcatgg catatgagc 449

<210> 40052
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H10

<400> 40052

cccacgcgtc cgtccaaacc tgacattaat ttattacaag cgtcagtata catcttgcat 60

gtggtcatag gcaagggccg gctggaaact tactaaatca tcttcctcgc gctcctcgcg 120

accgagtcat gccttcacac cgtcgacacc gccgctttat ggttttgctg gggcaagtgc 180

agagctcagt gcgcacggtc aagctcacac aggacatggg ccgcgtgcat gagctcatgc 240

agcctctgct gctaagagtg caactgcttg cccaacgaca tccatgactg cccctgctac 300

agaaacattt tcaccacctg tcccaacaat atgcccaagt 340

<210> 40053
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E11

<400> 40053

gaagaagtga ggagaaggtt ctacaagaac tggtgcaaga gcaagaagaa ggcttgcaca 60

aagtatgctc tcaaatatga aaatgatgct ggcaagaagg aaattcagct gcagcttgag 120

aagatgaaga aatatgcttc tgttatccgt gtcattgctc atacccagat taggaagatg 180

aagggtttga aacagaagaa ggctcacctg atggagattc aggtcaatgg tggtaccatt 240

gctgacaagg tggactacgg ctacaaattt tttgagaaag aggtccctgt tgatgctgtc 300

ttccagaagg atgagatgat tgacatcatt ggtgtgacca aaggtaaagg ttatgagggc 360

gtggtcactc gttggggtgt cacccgcctt ccccgcaaaa cccacagggg tctccgcaag 420

gttgcttgta tccgtgcatg gcatcctgct agggtct 457

<210> 40054
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E12

<400> 40054

gcgacagaga caagagctac aacagcttgt ccaagaacag cgctgaggca ctgacgcacc 60

ggatcaagac taggacgaag aaggccacac gcgagttcct gtgcttgaac cccaggttct 120

cctccaggct cagctggagc tccacctgga agaacacacc ctgaggccgt gccaagagca 180

actacttgga caacgtcaca cacttcagct tggacaaact gaagctgcag agggtaacgc 240

tctagatcat aacatacgcg tacctgacca agtgcacatg catcttcctg tcaccctcca 300

acgtcacaa 309

<210> 40055
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E2

<400> 40055

atcgactcca tggttgaggt tggtggaaac tcatatgcaa attcaattta tgaggctttg 60

gttccaaaag atcacccaaa acccaaacca gattcaacga tggaatatag gacaaaattt 120

ataagagcta agtatgagac acaagatttt ttgaagccaa gtttgcgcat ttcatcaaga 180

tcatctttta aatctaccac ttctgtgaag agtgtagata gcaatttctc tagcacttca 240

aggaaggatg tctttgaaga tacaagagaa tttgttggag agttgaatat cacactggtc 300

aaaggcacca acttggccgt tagagacatg ctaacaagtg atccatatgt tgttttaacg 360

ctcggagggc agaaagttca atcaacggtt aaaaaaagtg atctgaatcc ggtatggaat 420

gaagtgctaa ggatatctgt tcctcgaaat tatggacc 458

<210> 40056
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E4

<400> 40056

tgaactatga gcctatcgcg gcgtaccact tcgatttagc aggcacggcg ttcggcgcca 60

tggccaataa aggcgaggag gagaaggtgc tcaaggcggg catcatcgac atgcagttcc 120

gaagggttaa gtgcaagtac gactccaagg tcaccttcca ccttgaaaag gggtgcggcc 180

ccaactacct ggcactgctg gtcaagtacg tcgacggcga cggtgacatt gtggcagtgg 240

acgtcaagga gaagggcttc gacacgtacg agcctctgaa gcactcctgg ggcgccatct 300

ggaggaagga cagcgacaaa ccgcttaagg gacccctcac cgtccgcctc actaccgagg 360

gaggcaccaa gttcgtctac gacgatgtca tccctgccaa ctggaaggcc aacaccgtct 420

acaccgtcaa ataataactt tagtgctgac aatacttt 458

<210> 40057
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E5

<400> 40057

cccacgcgtc cgtctcgatc cacatcggcc aagccggtat ccaggtcgga aacgcgtgct 60

gggagcttta ctgcctcgag catggcattc aggctgatgg tcagatgccc ggtgacaaga 120

ccattggggg tggtgatgat gctttcaaca ccttcttcag tgagactggt gctgggaagc 180

acgtccctcg tgctgttttt gttgaccttg aaccaactgt catcgatgag gtgaggactg 240

gcacctaccg ccagctcttt caccctgagc agcttatcag tggcaaggag gatgcagcca 300

acaacttcgc ccgtggtcac tacaccattg gcaaggagat tgttgacctg tgccttgatc 360

gcatcaggaa gcttgccgac aactgcactg gtc 393

<210> 40058
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-E6

<400> 40058

agccacatga tgaagaagag cccgtcccag gatacgctgc cggacatggc agccgacgag 60

caaccgccgg aaccggcgcc accgcaagac ggggaaggag aggacaacta ggaggaaggg 120

accgccacca atatatatca cacacacaca cactcacaca ttctcacact caagtctgcg 180

tttgccattt ttcttttctt tttctctacg acgcttcgtt attccctcct ttcatctatc 240

tctccgngaa ctcggtttgt cgtccagctg gctgtaagtg taccagatgc cttcgttacg 300

tctgatgagg ctcatgacaa tggcgatttt ggcatggagc tgtgttagcc tcgcggaaaa 360

actgtaactg tgtaagcaga actgctatat attggtccta acaat 405

<210> 40059
<211> 387

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E7

<400> 40059

tgcttggtcg aacaaaggat cagattagga cgacagagca ggtcaatggt gctatggcta 60

gttgccaagc tttgaagttg gatgctctgg ttatcattgg aggtgtcact tccaacactg 120

atgctgctca acttgccgag acatttgctg aggcaaagtg tgcaacaaag gttgtaggtg 180

ttcctgtaac tttaaatggg gaccttaaga accagtttgt tgagacaacc gttggctttg 240

acaccatatg caaggtgaac gcacaactta tcagcaatgt atgcactgat gctctatctg 300

ctgagaagta ttactacttt attcgcctga tgggacgcaa ggcttctcat gtggcattgg 360

aatgtgctct tcaatcacat ccaaaca 387

<210> 40060
<211> 57
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E8

<400> 40060

ccaatttatt aggcttttgt tccaaaacat cacccaaaag ccaaaccaaa ttcaacc 57

<210> 40061
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-F1

<400> 40061

cgaataacac aggtgagcgc gacgatggga tccctcgcta ataacatcat ggtcgtgggc 60

gccgtccttg cggcgctcgt cgccggcggg tcgtgcgggc ccccgaaggt gccacccggc 120

cccaacatca ccaccaacta caacggcaag tggctcaccg ctagggccac ctggtacggt 180

cagcccaacg gtgccggcgc tcctgacaac ggcggtgcgt gcgggatcaa gaacgtgaac 240

ctgccaccct acagcggcat gacggcgtgc ggcaacgtcc ccatcttcaa ggacggcaag 300

ggctgcggct catgctacga ggtgagatgc aaggaaaaac ctgagtgctc gggcaatcca 360

gtcacggtgt acatcactga catgaactac gagcctatcg ctccctacca cttcgacttg 420

agcggcaagg 430

<210> 40062
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-F10

<400> 40062

gttgcatgtc atcgatgggt gtcctcagct tatctttgtc agatcaaatt atacaattga 60

gactgtagag gctgagagga tgtctgtgga ccatgttgcc catctcaaac catctgatgg 120

tggttcagca gcaactcagt tggctgctca tcttacagga atacacagtg ccatcaagat 180

gctcaatagc agggtccgtg ttatccatca gtatcttgtt gccatgcaaa aaggtgacat 240

tccaatggac aattcgctgc ttaggcaagt ctcaagcctt gtaagaaggc taccggctac 300

ggaatcacag aaattccaag atgactttnt aatggaatac aacgacactc tcctcatgac 360

ttacctggca atgttcacta actgttcaag cacaatgaat gagttggtcg agaaaatcaa 420

cacaagctat gagagaccg 439

<210> 40063
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-F11

<400> 40063

cccacgcgtc cggacatgtt caagagcaca tatgagtcca tcacccaagg aaatcctatg 60

tggaatgagc tgccagtctc aacaagcact ctctatccct gggatccatc atctacatac 120

atccatgagc ctccttactt caaggatatg acaatgactc ctcctggccc gcgaccggtg 180

aaggatgcat attgccttct gaactttggt gacagtatca caactgatca catctcgcct 240

gccggaaaca ttcacccaga cagcgcagct gcaacatatc tgaaggagcg tggtgttgaa 300

aggaaggact tcaactcata tggtagccga agaggaaatg atgagatcat ggctagggga 360

acctttgcca acattc 376

<210> 40064
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-F12

<400> 40064

tccatcttgc ttgccacggt ggcgctagca acgctattcg cggtcggttc gtgcaccacc 60

cggctcacct tccaggtcag cgagggctcc aagcctggcc acttggtcct cacccccaac 120

gttgccacca tctctgacgt ggagatcaag gagcacggtg gcgacgactt ctcctttacg 180

ctcaaggagg gtccgactgg cacctggacg cttgacacca agaccccgct caagtacccc 240

ctctgcatcc gcttcgctgt caagtccggt ggctaccgca tcgccgacga cgtcatcccc 300

gccaatttca aggccggcac cacctacaag accaccctca acatctaatt agcctcttat 360

gacacataat attttgagag agctcatctg gaccaagtgc cagcgagcta atatttaatt 420

ttcttctttg ggtatattga ggcaccacac gagccaagaa aa 462

<210> 40065
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-F2

<400> 40065

ggaagaccaa catgctgaca gctctcttgg ttccttacat tttcttcacc ctgcctaatg 60

tgctgttttc tctgatcaga ggagaggtgg ggaaatggat tgcgattatt gctgttattc 120

tgcgtctatt ctttccacga cacttcccag attggttaga gcttcctggt tccatcatcc 180

tgctcacagt ggtcgccccc agcctgttcg cggacagctt caggggagac ctcgttggtg 240

tcttcatatg ccttgtgatc ggatgctacc tgctccaaga acacatcaag gcgtcaggtg 300

gattcaggaa cgccttcagg aagggcaatg gtgtgtccaa ctcccatcgc atccttctgc 360

tcttcatcta ccctgtctgg gccggtgtgc tgcaagt 397

<210> 40066

<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-F3

<400> 40066

gccaaattac acgattcttc ttctggggca tatttttttg cagtttgccg tggcaaagtt 60

agtgagggtc ttgattttgc tgatcgtgct gggagggcag taatagttac tggaatgccc 120

tttgctactc caactgatgc caaggttcgg ctcaagcgcg agtatttgga taagcagggg 180

acaccatcta ataaaaacac aaagatgttg acaggagaag aatggtatgt gcaacaagca 240

gcacgggctg tcaatcaggc tgttggacgt gttatcagac atcgccatga ctatggagct 300

attatttatt gtgatgaaaa ggttgngtgg ccaaattatc aatctcagat gtcatattgg 360

ctccgacctc atataaagtg ctactcaaag tatgggg 397

<210> 40067
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-E10

<400> 40067

cagttagctc acctcccccg ccagttcccg tgagctcagc acccccattt gcaaaagtcc 60

cgaccgccac agttcaaagg acctgcacca ccaacttcga gaagatctcc acctccactg 120

gtgaagcccc cgccaccacc gccacttgta agctctccac cactgccacc aatgacctcc 180

ccacctccac cagccgtccc atcaccacct ccacctgcac catcatcacc tccaccgtcg 240

gcacctgagg agttcatctt gccaccaatc atggcgcagc agtatgcgtc gccaccgccg 300

cctctgttcc aaggatacta agcggtgatc acagcgcgct ctactgacga tgagagtaat 360

cgcgacgagg gaggccagga gaagcagtga caagtcgatc gcaccatgca atgctctagc 420

gacctgaatn gaatgctatc ngataagcgc atgtacgtt 459

<210> 40068
<211> 222
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-C6

<400> 40068

gacgcgcccg ctcccggtcc cgacttcgcc tcatactcgg actcgtcgtc ggaggcgccc 60

ttcagcagca gctcattcga ctagccgcgc acaacgcagt tcttgtcatg atctatctag 120

cagataaaaa gatcatatgt ctcgttctat tctctggtat actactacta tctgttcgtc 180

gcgctgattg ctttttatac atcgatcgag gatcgactta tc 222

<210> 40069
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-C7

<400> 40069

gtgaaatcaa gtataaaata ccgcacgatc aacccagaat ggaacgagga gctcaccctg 60

tccatcacga acatgatgaa cccggtcaag attggactct tcgaccacga cacgttcacc 120

aaggacgaca gcatgggcaa cgccgagttc tgcatcctca acttcgtgga gatcgcgaag 180

caggacctga gcgacgtccc cgacggcacg gtgataaaga cgatccgccc ggagaagggc 240

agctgcctcg ccaccgagag ccacatcacg tggaaggacg gcaaggtctc ccaggacatg 300

gtgctcaagc tcagggacac cgagaccgga ga 332

<210> 40070
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-C8

<400> 40070

acaacgggga ggtgaccgtg gtgacgctgc tcaactccaa gctctttcac atgaacatgt 60

accggggcaa ggacatgctg atcaaggacg tgaccgtgac ggcgcccggg gacagaccca 120

acacggatgg ctttacttgt gcgactcatt cgggatcacg atcaccaaca ccgtcattgg 180

aagcggcgac gaatgcatct tcatcggccc cgggacctac aaggtgaaca 230

<210> 40071
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D1

<400> 40071

gataacgcgg attaccattt ctcaaagatc agatcaaaac atggagcaag atccaacacg 60

tccatgtgca aaaactagcc actacacatc acgcgaggtg gctcccgatt attcgacttg 120

ctgcacggct ccaattcagt tcatcaccat acacgcatgc atcgtggcgc acgccactca 180

cgagcgcggc gcccatgcgc ccacaactta ttacgactcg tcaccaacca accaaaccaa 240

gccacccagc aggtccagtc caggcgtgtg tgctgtgctc tcctctaccg gccgccggcc 300

acatcacgcc gccgaggcgc ccttggcgtc gccgctgcag tagtcgcgaa cggcctcgag 360

ctt 363

<210> 40072
<211> 98
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D10

<400> 40072

cggacgcgtg ggcttgttca tgtatgctca aggttcatta tcttgttcat gtattaagta 60

tgttatgaat aactcaatat ttattatttt gttcatgt 98

<210> 40073
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D11

<400> 40073

ctgctgcgtc acctaaatca tccatcctat ttgttgcatc acctgctaaa gtataggggc 60

tgtcttttac acacatcggg tgtagtatat tatgccactt aacataaaaa caatgtggcc 120

aatggatgta acagctccaa actgacttgc ctcctctttc aaacgactat catggctatg 180

SEQUENCE LISTING

atggcttcta aactgcacaa cctggacctc ttttataaaa aaaagattct gtcaaaaccc 240

tggcaagcac cacctctatc tacatctcga atcaaagact tatttaaaga ctcaccaatt 300

gcgccaatgt cctcagctac agctctttcc cacgttaacg cttacaatga tatcattagt 360

<210> 40074
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D12

<400> 40074

ctcctcagtc acagaaatcc cccgccaaag ttgatgcaac accgcctaaa gttgagaagc 60

catcggttac accacctcct aaagttgatt atgccactga tctctttaac atgttgtcaa 120

tggatggaac aacagagaaa gagtcagctt catcttcaaa cgacgataat ggctgggatg 180

gcttccagtc tgcacaacca gtacctagtt cagagaaaaa agattctgcc aaaccagcag 240

aaagcaagac ccagtctaca tctggaatgg aagacttatt taaagactca ccagctgtgc 300

cattatcctc agctccagct gtttcccaag taaacgctaa gaatgatatc atgagtttgt 360

ttgagaagtc caatatggta tcacctttcg ctgcccatca acagcagctg gcgctcatgt 420

ctcagcagca agctcttcta atggctgctc tcaaagct 458

<210> 40075
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D2

<400> 40075

ccaccaccag cgccaccgcg gccagagctg gcaccgccac agcggcggcg gccgagatgg 60

ccgccggtcg acccctctgg cggggctgac gcagtgcgtg acaagctgcg ggtctggggt 120

cacctcctgc atgctggact gctaccagcc gctggtcgac ctggaccccg tggagctgcc 180

cgtctgcctc ctcaagtgca ccaacgacgc catggtctgc gccaccggct gccccgtcac 240

cgggaacgtc tagcttgcta tagctagccc atcattatat atatatatct atagtcatct 300

tagttattaa ccccgccatt tatttattta actagccacc gaaccaatcc aacgtgttac 360

tcctatataa taaggatatg catgatgact aaaggatgtt ggtgaaatac gtagtatgta 420

agtcgcgtgt tcaca 435

<210> 40076
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-D3

<400> 40076

gttcaatggc ttgccaaacc cttttactgc cgcgaggtac cacagcttgg tcattgagca 60

agaaaccttc ccacatgatg ctttggaggc tactgcatgg actgaagatg gacttatcat 120

ggctgctcgc cacaagaagt acaaacacat ccagggtgtc caattccacc cggagagcat 180

catcacccct gaaggcaaga aaatcatcct caactttgtc agattcattg aggaactgga 240

gaagcagcgt tcgtagggga ggtagacgcg acaggtggtt tcatttcata gatcagacgg 300

aagcagagac aaggcgctta aagctgcgcc aggttccggg gctggcagtt gaagcatagc 360

taggaaacag ctntccctct cttaattcgt tgggttcgtg gtgacataat ctgtgtgcgg 420

accgaattta agataaagta c 441

<210> 40077
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D4

<400> 40077

attgtagtgg cttatctcct ccaaaacatg acaccaatgg cacaattttt taaaaagata 60

ttttagatct aacaagaacc ttgtatttgc agactattga ggctctcttc agtaaaaaga 120

ttttcttgaa caaggagggg tacagtgagt tctacagtgg actggtagat tccgtgagct 180

ctgaactgaa gggatccaag gattttacaa agttatgtgc aggtctctcg atccttgggt 240

acatttcttc cgagtcagat ggaacttgca ccaaggcatt ttcccaactc ctcacattcc 300

taggccacag ataccccaag atccgaaaag ctgcagccga ccaggtgtac cttgtgctgc 360

tgcaaaatga tgaccttatt gtgtcggaga atatggataa agcccaggga ttacttgcgg 420

ag 422

<210> 40078
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D5

<400> 40078

cttctattct attctttcac cccagaccac cgctttcctc tacgagtacg tcgctaaagg 60

gagcatcctc gacatcctgt gtggccagga ggatttcccg ctggatctac gcatgaggat 120

cgcgatcaag accgcggaag cgttgcagta cctgcattcg tcggaaactg gcgtcaccgg 180

acacggcagc gtctcggcgt ccaccatact cctcgacaac aacctcgtac cgaagctcac 240

cgagttctcg aggtcatgta cgctgttcaa gaagagcgag actacttctg ttgttggtgc 300

tggagtgatg atcactggca gccttctaga gaaagctctg aacgacgacc cgtcccgcta 360

cggctcggtg ttgatgaacc tggagagcga cgtgtacag 399

<210> 40079
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D6

<400> 40079

aaataaacta caggaagaga gagggaaggg accacacgag agtcattaag taaatccact 60

gtggtggctg attagggtag gaagggatgt ctgaaagtga cgagcacggc tcgctcctag 120

acaagatcaa cgagaagatc cacgagtaca agcactcatc gtcgtcttcc tcgtcagact 180

cagatgatga caagaagtcc aaaaagtcta agaagaagaa gaagctcttt gggaggaaac 240

atccattgca tcacgttctt ggaggaggca aagccgccga tcttgtgctg tggaggaaca 300

aacaggcatt cgggagcatc ttggcagggg tgactgtgat ctggctgctg tttgagggca 360

tcggctacc 369

<210> 40080
<211> 411

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D7

<400> 40080

ggcgcctgcg tcaccgagtt cggccttgcc cagctcatgt ccacgcccca cgtccacccg 60

cggctcgtcg ggtaccggtc gcccgaggtc ctcgagacca ggaaaccgac gcagaaatct 120

gacgtctaca gcttcggcgt cctcctcctc gaaatgctca caggtaaagc ccctctcagg 180

tcccccgggc gcgacgactc catcgagcac ctcccgaggt gggtacagtc cgtggtccgg 240

gaggagtgga cgtctgaggt cttcgacgtc gacctgctga ggcacccgaa cctcgaagac 300

gagatggtcc agatgctcca cgtcgcgatg gcatgcgtcg cggtcgtccc cgacgagcgg 360

cctttgatgg aggagggtgt cggcaggatc gaggagatcc ggagcttcta c 411

<210> 40081
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D8

<400> 40081

gcaacctacc atttacagat gctagacgca atgggtaggt ggcaaagcta ttacttcatc 60

ggctggttcc caatgcgcga tattcaattt ggattgattg gaaactcaag ctagtgaggg 120

atccttatca ggtattacaa agggtcttgc gcaggcagag tgttagcttt gcaatttcca 180

ggcattacag acgcttcgat gttttcgagg aagctgactc cgacaaggca ttgggaactg 240

tgagaacacc tttcgtaagg gacgtagacg cgacaggtgg tttcatttca tagatcagac 300

ggaagcagag acaaggcgct taaagctgcg ccaggttccg gggctggcag ttgaagcata 360

gctaggaaac agctttccct ctcttaattc gttgtgttcg tggtgacata atctgtgtgc 420

ggaccgaatt tagaataaag tac 443

<210> 40082
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D9

<400> 40082

gaagattgtc cgcaacaagc gcaaatgtgt tactgtggtg aagggacttg aattgtttgg 60

tgtaaagctg agtgatgctt cgaagaagct tgggaagaag tttgcaactg gagcttctgt 120

tgtcaagggc ccgaccgaga aggaacagat tgacgtgcaa ggggacatat catatgatat 180

tgtggagttc attacagata catggcctga tgtacctgag tcggccattt tcttcattga 240

agatggaagg aaggttcctg ccgcttgatg ccactatgag gcgcaggacc aatggattta 300

caattataac acagagataa agcaaaggcg tggctgtcaa ggcatgtagc ggcccatacc 360

agtcgtctct ttgtccgaag tcatggactg gtcttccaag ttttatcagg agtggcgttt 420

tgttaccacc gtcacctgct tcatgtatga gat 453

<210> 40083
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E1

<400> 40083

gtctagaagc atgcaagctc cttgaggcaa cccttggtgc tgcccttggc gttcgtgcat 60

atagcccctc catcgactga cccatctctc tagttataat ttttctctcg tccttgcatt 120

gcccattaga tgctatccat tggtaacgca caacagtaaa acgacagaca tccgacagct 180

atattatgtt cgacggtgta acaccctgaa tttgagggta taaaatttct tctccaaata 240

ccaaccaaat ttaggggttt aaaaaaaata aaaaaaatat ataaaaaaaa tatttttttt 300

tatttaatat aaaattaaat ttaatatatt taatttttaa tttataataa tattttataa 360

aaaaaattat 370

<210> 40084
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-C4

<400> 40084

cccacgcgtc cggaagctgc tgcgcgtcac gctggacctc atcaccgagg cttccggctc 60

catgtcggcc gaggtcggac tgccgccgtc ggacgcgccg gcgccgttcg gagggtacgg 120

ctcgtcggct ggcgcccccg cctacggcgc tccgtctcct gatgccccag cttatggcgc 180

cagcgtacca gcaccgacct cggagcagag tactgcttcg actgcatgag tgatatcgtg 240

gcggcacaca cgcatcttgg tcactcctat ccatggttcg aattaccgac cgaaaagtct 300

ggttcctcgg ccaatttctc gttcccggtc agctagggga agcatttctc ggcccggtat 360

cacattntaa aaatatgaaa gtcaattttt tttgttc 397

<210> 40085
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A9

<400> 40085

cgaaaaggcg aaaactcatg gtctcgagtt tcctcggagc ggaggcgatg gctgggaagg 60

gagggaaagg cttgctcgcc gcgaagacta cggcggccaa gtccgccgag aaggacaagg 120

ggaagaaggc cccaatctca cgctcctccc gcgccggcct acagttccct gttgggcgta 180

tccaccgtca gctgaagcaa aggactcagg caaatggtcg cgttggtgcc accgcagccc 240

gctactccgc tgccatcctg gagtacttga ctgccgaggt tctggagctg gctgggaatg 300

ctagcaagga tctgaaggtg aagcgcatca cccctc 336

<210> 40086
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B11

<400> 40086

gccttgttcc tcctggtcct cttctgcatc gtgcatggtg agaaggaaga gtcaaagggc 60

atcgatgcga aagcgtccgg gcctggtggg tccttcgaca tcaccaagtt gggcgcctcc 120

ggcaatggca agacagacag cacgaaggct gtgcaggagg catgggcatc ggcgtgcggc 180

ggcactggga agcagacaat cctcataccc aagggcgact ttcttgtcgg acaactcaac 240

ttcacaggcc cttgcaaggg cgacgtgacc atccaggtgg atggcaatct gctggcgacc 300

acggacctaa gccagtacaa ggaccatggt aattggatcg agattctacg cgtggataac 360

ctggtcatca ccggcaaggg aaaccttgac gggcagggcc cagccgtgtg gagcaagaac 420

tcctgcacca agaagtacga ct 442

<210> 40087
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B12

<400> 40087

ctaactctaa ccctatctgg gcagaacact atgattaatc agggcctggg tcatggtgcc 60

gggcgcttaa catcgagtgt gggtagcatg tccagagggg cttccatgca catcgtggac 120

aaagggtcaa gggctggttc gacttcaagg gcatctatga ccttgaaaag gggagcgcgc 180

ccaactagct gatactgctg gtccagtcta tctaccgaca ccgagcacct attatgggg 239

<210> 40088
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-B2

<400> 40088

gggacagctg cattgtttaa ttgtgttaac tgggttgaaa gcaagtcatg ggatggtcgc 60

gatggacttg ttgtttgcac agacagtgcg gtttacgctg aaggtccggc tcgccctact 120

ggtggtgcgg ctgctattgc aatgctgatt ggaccaaatg ctcctatttg ttttgaaagt 180

aaatatagag gatctcatat ggcccatgta tacgactttt acaagcccga tcttgcgagt 240

gaatatccgg tggttgatgg gaagctatca caaacatgct acctcatggc attggactcc 300

tgctacaatg tattttgcaa aaagtatgaa aaacatgagg ggaagcagtt ttcaatttct 360

gatgcagatt atgttgtgtt ccattctnca tacaacaagc ttgtacaaga aagcttcggg 420

cgtttgtact acaatgat 438

<210> 40089
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B3

<400> 40089

gtgagagccc cctttacttc gcggagcgcc tgacggagca ctacaagcgc gctgatggcg 60

caggcccgct catctacctc aagagggagg acctcaacca cacgggcgcc cacaagatca 120

acaatgctgt ggcgcaggcc ctgctcgcca agcgacttgg gaagcagcgc atcattgccg 180

agacaggggc tggccagcac ggtgtcgcca ccgccaccgt gtgcgcccgt ttcgggctgc 240

agtgcatcat ctacatgggc gcgcaagaca tggagaggca ggcactcaat gttttccgga 300

tgaagcttct tggtgcaaag gtgaaggctg tacattctgg gacagcaacc ctgaaggatg 360

ctact 365

<210> 40090
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B4

<400> 40090

ctgaggtcct ggagcttgct gggaacgcag cgagggataa caagaagacc cgcatcgtgc 60

cgcgtcacat ccagctcgcc gggcgcaacg acgaggagct gaccaagctg cttggtggtg 120

ccaccatcgc gagcggcggc gttatgccca acatccacca gcacctcctc cccaagaagg 180

ctggctcgtc caaggcttcc accgtcgatg acgatgacaa ctgaagctgc ccactggaga 240

agaggcattc gctaccgtct tgtttcctag gtttagcacg cagttagtca gcatgtcttt 300

gagagctcga tgtgtttggg aatgacaata gctcctttct tggttcccta agatcgttga 360

ttcag 365

<210> 40091
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B6

<400> 40091

ggctccccaa agatagcata gcagcagcac tcacaatagc aaaaaccacc atccgtcgtc 60

gccaaccgta gcaagaacat caccaccgcc caacggcaag aaagaccccg cctgcaccaa 120

gatgtgcaac caggcgtgcg gctccacgga tcagggcgcc ggtgccgccg gcgccgcgcc 180

ggcttgatcg cccagcgcat tcatcgcttc agctcgatat aatcgctgct ccgtcagcaa 240

cccacatatg attcgatcaa ttttcctgct ctaatttctc gaccccgtcg aatttttttc 300

ctttctattc ttctactata ctactactat ctgcttgtcg cgttgatttc ttctcataca 360

tcgatcgagg atcgactcat cgttttgtaa ttcctgcaat ttgtaagtgt aatgacctat 420

atgacttagt cttccttttt 439

<210> 40092
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B7

<400> 40092

gcgggctgct ctcttctggc ctctccatcc tgctctggct gcagttcgcc gcctccatct 60

tcggccacca atccactagc agcttcatgt ttgaggtcta ctttgggctg ctcatcttcc 120

tgggctacat ggtgtacgac acgcaggagg tcatttagag ggcgcaccac ggcgacatgg 180

actacatcaa gcacgccctc accctcttca ccgacttact ggctgtactt gtccgcattc 240

ttgtcatcat gctcaagaac gcggctgaca agtccgagga caagatgacg aataggatga 300

ggttgtgaaa atctgtgttc gaacacagca cttcaaggaa aggaaggaaa gcact 355

<210> 40093
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B8

<400> 40093

cccgttcccc agctgcaaca tcctctgtgt gtctctctgt ctctttctac ctgccccgtt 60

cctcaccaaa cttgtcgact tgtgagtctc ttccgccgcc gtcgacgaga gctgcgctag 120

gtgatctcgg ctgcttcctc gtcccccatg gcgacggcgc tcaaatcgtt cctgaacagc 180

cccgtcggcc ccaagaccac ccacttctgg ggccctgtcg ccaactgggg cttcgtcatc 240

gcgggtttgg ttgacatgaa caagcctcct gaaatgatat ctggcaatat gacagcagcc 300

atgtgtgtgt attctggact ctttatgag 329

<210> 40094
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-B9

<400> 40094

ggcgagcggc agttcctccg ccgcgcggcg tggctggtga tgaggacgga cgggtacttc 60

gtgccggcgc tgttcctgaa cccggcgtac caggacgagc tcgacgggat gttccctcgg 120

aaggactcgg tgttctacct cctggcgcac tacctgttcc acccgacgaa cgaggtttgg 180

gggctggtga cgaggttcca caggtcgtac ctgaggggct cggacgaaag gctgggcatc 240

caggtgaggg tgttcgacgg agacgccccg ttccagcaca tcctggacca gatcctcgcc 300

tgcacttcgc aggaacacct gctccccgac gtggcggtga cgcaagagcc gtcngcgggc 360

cgcggcgc 368

<210> 40095
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-C10

<400> 40095

aacacacgga accagaaagc aaacgcaaac aagaagcaaa ccagcaatgg cccgcgcctg 60

cgtcttcctc gtcgtgctcc tcctagccgc cgtcgccatg gcgccgttcg cgggcgcggc 120

gcgcatcgac gtcgtcgagg gcaggtccat ggcgtccgcg gacgcaccgg aggccgccgn 180

cgacgctccc gctcctgctc ctggccccga ctccttctcg accccgtcgc cggcaccctt 240

cagcagcagc tctttcgact agccgcccgg cagagatatc tacggcgtcc gatcagtctt 300

tggcgccacc tataacctat cggatcctgc aaagctatat atgattctat 350

<210> 40096
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-C11

<400> 40096

aagccaaaag gattattaca attatgggcc gggccggggg ggttcttcgg ggggttcttc 60

tgggccgccg tcgggggggg gccgtttgcg ggggctgcgc gtgtggatgt cgtggagggc 120

aggtacatgg cgtncgccga cgcgcctgag gcggcggctg acgcgcccgc tcccggtccc 180

gacttcgcct catacccgga ctcgtcgtcg gaggcgccct ccagcagcag ctcattcgac 240

tagccgcgca caacgcagtt cttgtcatga tctatctagc aaataaaaag atcatatgtc 300

tcgtttgatt ctctggaata actaatagta tatatgctgc gcccggatga tatataaata 360

tgtgcatcaa atgcgtgcgg caaacgcatg gaatgtgctt gcctagctag ctaattggtg 420

gtttttttt ctttac 436

<210> 40097
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-C12

<400> 40097

cggtcgcgtg ggatagaata acagcagcac tcacaatagc aaaaaaccac catccggggg 60

cggcaaccgt agcaagaaca tgagcaccgc ccaacggctg gaaagacccc gcctgcacca 120

agatgtgcaa ccaggcgtgc ggctccacgg atcatggcgc cggtgccgcc ggcgccgcgc 180

cggcttgatc gcccagagca ttcatcgctt cagctcgata taatcgctgc tccgtcagca 240

acccacatat gattcgatca attttcctcc tgtaatttct cgaccccgtc gaatatttgt 300

gctttctatt cttgtactat actactacta tctgtctgtc gcgatgattt cttgtgatac 360

atcgatcgag gatcgactta 380

<210> 40098
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-C2

<400> 40098

ggaaggacgg cgtacggcgc tgccaacgct accacaccgg cccggtcgcg cgcccggatg 60

cgacgcgcgg tcctgtgctg gcgggaccga gatgtgcggt gcatgtgggc gcgtacgtac 120

gttggtcgtt ggtccctccg tccgccctcc ggcttcgtgg tttcgtttag ttaggatgcg 180

tttggttggc gagccaccgg atgtggagtg gcttcattct agatttggag aatagagctg 240

ttctgttcta tgttaggtaa gcaggatgga gctgctctat tttttgcttg gttggggagt 300

gtattataac ggagccattc acttttt 328

<210> 40099
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-C3

<400> 40099

ctttgagatt agaaaagagt ggccagggcc agcaacctaa tgatatatgg agcggcggtg 60

gtggattcgt taaacacata catgttagaa ctcttagtta agacaagcag aagatctatt 120

atattctact gcttctagct agaggatgat tgcttcacat gcatatcgtc atgtttaacc 180

accgtacgta taatttgttt ggagtccatt attctacgct atttgggtat tattattgtt 240

aattcacatt atagaatcag tcgtgtatgg agattcaaag atatatttat atacttatga 300

ccttcttact 310

<210> 40100
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-G11

<400> 40100

ccaaaccgac gatggcgtcg aataagacgg tcctcatcgt cgcggcgatg cttctcatca 60

cgctcgtgct ggaggccgcc cctccggcga ccgccatgga ctgcaaggcc gggtgtgacg 120

aggtcacggg cccactccac atgagcatgg aggactgcat gaagaggtgc aaggagatcg 180

ctgctaagca ggggcctagg gacccttaca aggataacaa acttgacatc ccatgaacta 240

attaatgctc ctatatcatc tgcctatcca tgcatgcatt gcattgcgta tgcacactgt 300

gcgtgcctgc ccacaaagtt cgacaacaca ccgatctcga cggatttgta atcgtgtcca 360

ctcgatcgag agatcgatcg atgcttgtta ttatatttgt attccacatt atatataag 419

<210> 40101
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-G12

<400> 40101

gcggcgaggc ggcggaggcg aagaagatcc aggacgactt ctgctcgacg ctgtgcgagg 60

gcaaggaggg gacggacctg gtcgtgtgca aggagtcctg cgcgctctcc cagcagtcca 120

acctggtgct gtacggcagg atccagtgca agggcaagtg caccgagcag aagggcatca 180

cggcgccggc catgaaggtc tgccaggagg agtgcgacaa ggcgtacgtg gtgaaggcgg 240

ccgaggtcac caaggcctgc agcgtcacct gcgccaagga gaagaacccg cgcctcagcg 300

agaactgcaa g 311

<210> 40102
<211> 520
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-H10

<400> 40102

gacccacgcg atccactcgt ccgttctcca gcagcctatc gcggcgtacc acttcgattt 60

atcaggcacg gcgttcgtcg cgatggccgg gaatggcgag gaggagaagc tgcgcaaggc 120

gggcatcatc gacatgcagt tccgaagggt taagtgcaag tacgactcca aggtcacctt 180

ccaccttgaa aaggggtgcg gccccaacta cctggcactg ctggtcaagt acgtcgacgg 240

cgacggtgac attgtggcag tggacgtcaa ggagaagggc tccgacacgt acgagcctct 300

gaagcactcc tggggcgcca tctggaggaa ggacagcgac aaaccgctta agggacccct 360

caccgtccgc ctcactaccg agggaggcac caagtccgtc tacgacgatg tcatccctgc 420

caactggaag gccaacaccg tctacaccgt caaataatta actttagtgc tgacaatact 480

ttaagccgac ctatgctagc tatactagaa tgggttggat 520

<210> 40103
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-048-Q1-K1-H11

<400> 40103

cccgcgttca tcgacggacg agctcgccgg cgagagagcg actgagatgg aggcggcggc 60

agcgggggcc ggcgtggagc tgggctcttc gaagccccag atcgcgacgc aggcggagat 120

ggcggaggcc cgggtgccgc tcgcctaccg cgaccagtgc gcgcacctcc tcatcccgct 180

caacaagtgc cgcgtcgccg agttctacct cccctggaag tgcgagcccg agcgccacgc 240

ctacgagaag tgccagtacg agctcgtcat ggagcggatg ctccagatgc agaagatccg 300

cgaggcgcan gagaccaagg tcaagggcgg cgcctncatt ggcctcatcc cggccaccgn 360

caagctcgcc tgatacgggt cccagcccga tccgcttgat ttaggtctgt ttgttggcta 420

tagcagcgt 429

<210> 40104
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A1

<400> 40104

agatagttta ggtttgataa tggatccaaa atatgttagc ctatgcatct tcgtattact 60

tgtattgcat ggagatacta ctttggcaga aacttgcagg gagtttgcta aatggcatcc 120

attctgcttt agtgcaatgt gcaaggcaaa ttgttttata gaaggaaaaa gctccgatgg 180

ttcctatgca aagggatata gatgtgattc acatggattt cattctatgt gtatttgcct 240

tttgtgaaaa gttagttatc ttaagacaag cggggatata ttctatgttc ata 293

<210> 40105
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A10

<400> 40105

cagcgccgtc ctgctccggc ccctcgctgc cgccgtggcg ccgccgaagc cccgcgcgat 60

gccggtctcc tcggcgcccg cgacgagacc cagctccgac gccgagctac tcagcgtcat 120

cgactccgag atcaagtacg ccgaggactg cgatgaccac gacagggttg aggagattcc 180

agaaaatttc cctttcaaaa tcagcgacga gaaggggacg aatgcagtta cccttaaaag 240

aacatatcag ggtgagcaga ttgaggttgt ggttcacatg cccagccttg tcactggaga 300

tgagcctgat catgaccgtg atggtgagga tgaggacacg gcgggagatg acaatgacga 360

agatg 365

<210> 40106
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A11

<400> 40106

tgaaaattgt tgttgggaag aatctggatc taatagtttt tgatgaaaca aaagatgtac 60

ttcttgagat atatgcacca tggtgtggtc attgtcaatc gctggaacct acttacaaca 120

atctagccaa gcatctacgt agtgttgact cccttgtggt agccaaaatg gatggtacta 180

ccaatgagca tccacgtgca aagtctgacg gatacccgac gattctcttc tatccagctg 240

ggaagaaaag ctttgagcca atcacttttg aggggagcg gacagtggta gatctgtaca 300

agttcatcaa gaaacatgct agcatccctt tcaagttgaa gcgccaggag tcgagaaccg 360

agagcactcg ggcggagggt gtgaagagc 389

<210> 40107
<211> 457

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A12

<400> 40107

cgccgccgct gcgccctcct ctcggtcctg ccgtccgtcg aggtaaaagg acagcatggt 60

gagggtcagc gtgctcaatg atgctctcaa gtccatgtac aatgctgaaa agatagggaa 120

acgtcaggtc atgatcaggc cgtcatccaa ggtgatcatc aagttcctga cggtcatgca 180

gcgccatggc tacattggtg agttcgagta cgtggatgac cacagagctg ggaagatcgt 240

ggtggagctg aatggaagac tgaataaatg tggtgttatt agcccacgtt ttgatgtagg 300

tgttaaggag atcgagggat ggacggcgag gcttcttcca tctcgccagt ttggctacat 360

cgtcctaaca acttctgctg gaattatgga ccatgaggag gcccgccgta agaatgttgg 420

tggcaaggtt ctaggtttct tttattgaaa atgtgtt 457

<210> 40108
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-A4

<400> 40108

atcagccaag agctatccat acgcacagcg atgcaccagc acgagatact agccatcatg 60

cgcctgtcgt ccctcctcct cggcgtggcc gccctctcgg cgcgcgccgc ggcgcagcag 120

gtgccgccgg tgggcggcag cgctctgaag ccggactact acagccagtc gtgcccgcgc 180

gcggagcgga tcatcgcgga ggtgatgcag acgaagcaga tggcgaaccc gacgacggcc 240

gcgggcatgc tgcgcgtctt cttccacgac tgcttcgtca ccgggtgcga cgcgtcggtg 300

ctgatcgcgt ccacccagtt ccagaagtcg gagcacgacg cggagatcaa ccactcgctc 360

cccggggacg ccttcgacgc cgtggtgcgc gccaagctgg ccctggagct ggagtgcccc 420

cggggtggtg tnctgcgccg aca 443

<210> 40109
<211> 445
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A5

<400> 40109

atcgccgagt tcaaggaggc cttcagcctc ttcgacaagg acggcgacgg ctgcatcacc 60

accaaggaac ttggcactgt gatgcgctca ttggggcaga accctactga ggctgagctt 120

caggacatga tcaatgaggt tgatgctgat ggcaatggaa ccatcgactt tcctgagttt 180

ctcaacctga tggcacgcaa gatgaaggac accgactctg aggaggagct caaggaggcc 240

ttccgtgtgt tcgacaagga ccagaatggc ttcatctccg ctgctgagct tcgccatgtc 300

atgaccaacc taggcgagaa gctgacggac gaggaggtgg acgagatgat ccgtgaagcc 360

gacgtggacg gcgatggcca gatcaactac gatgagttcg tgaaggtgat gatggccaag 420

tgagatatgc tcgctatttt taagc 445

<210> 40110
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-A6

<400> 40110

ctcgccgacc ccaaggaggc ccgcgccggc atcaaggagg tccacttcct ccccttcaac 60

ccggtggaga agcgcacggc catcacctac atcgacggca acggcgactg gcacagggtc 120

agcaagggcg cccccgagca gatcatcgag ctgtgccgga tgagcaagga tgccgagaag 180

aagatccacg ccctcatcga cggctacgcc gaccgcggcc tccgctccct gggcgtgtcg 240

taccagctgg tccccgagaa gagcaaggag agcgccggcg agccgtggca gttcatcggt 300

ctcctcccgc tgttcgaccc gccgcggcac gacagcgcgg agaccatccg ncgcgcgctc 360

cacctgggcg tgaacgtgaa gatgatcacc ggcgaccagc tggccatcgg caaggagacg 420

gcgcggcgcc tgggcatggg cagcaacatg tacc 454

<210> 40111
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A7

<400> 40111

tcaatgaccg gtggacaacc atttgctaca gcagaaaacc gacaaggtga cgctcgcgga 60

gatcaactgc actgggccag gcgctgacgt gacaaaccgc gtgccatggt cgtggaggtt 120

ctctcccgac gacgcggcca agtacctcac catcgacttc atcaacggca aagactggct 180

gccggcgtac tactactgat ccgaccaacg actgctggat ccatcaaaca tgcatgc 237

<210> 40112
<211> 124
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H8

<400> 40112

atttgaaaca gttcagaatt catctataag attgcctaca tatatatatg attctggcaa 60

ggcaaacgtg atgcagtctt gacgcatgtt ccattcggac atcatcatgc ttgtcctgct 120

gatt 124

<210> 40113
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H9

<400> 40113

aaaaccatag tatcaatcat gattggccgt tttttgtcaa taatggccac tatgctgacg 60

aggaggctgg tcgacttgct cggccgggcc tccgatgtcg aggacgacct ccggggcaaa 120

aagaagccca acatacacca cctcaaggtt aaggcgtgtc catggacgga cggtcacgcg 180

actatctaaa agcggacgcg acgcgttaac tgacacca 218

<210> 40114
<211> 472
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-A10

<400> 40114

atttcatgag agggaacaat atgtctattt cacatagaca caaatacaag ataaggaaag 60

agagttgaaa agggactata ggttgctaaa ggatgcaaag aatcaaagtg gagcgcattt 120

tgatgagaag acagtgagga ttacggctga cccagcttta tggaaaaata tactgacttc 180

tcatgctaag gctaaaaagt tctgcaacaa gtcttttcct ctatatgagg ccttggggga 240

gctttatgat gggcaaacag ctgaagggac ctactactac accttcaccc aacttttaga 300

tcttactcaa gtaggaaata gagatgagtt tctcatcata gaacatgaac aagatgaagt 360

ggaagaaacc ttgccggcac atgaagaaga tgatgtccat gttgttgagg caggagatgc 420

aacaggttta aggcatgatc cattgccgca gagaacgact actgctacaa ga 472

<210> 40115
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-A9

<400> 40115

actttatacc ctattccttc tacacttcca acttccaatt ctactatact ttcaattacc 60

ttcaatacat cactctcttt actctatata cctacatcaa caatctaatt aactttatta 120

tattcatata tacattcacc ctaccattat actactaact ttaatct 167

<210> 40116
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-048-Q1-K1-B11

<400> 40116

gatgtcatgc actaacattt cgangttagc cttcntcctc ctggtcctca gcatcatgat 60

tcattttcag aaggaanagt caaatgtcat cgatgctaaa gcgtccgttc ctggtacctc 120

cttctacatc accaagttgg tcgcctccgg caatgtcaag acatacagca cgaatgctgt 180

gcatgaggca tgtgcatctg cttgcggctg ctctgggaag catacaatcc tcatacccaa 240

gggcgacttc cttgtcggac aactcaactt cacaggccct tgcaaggtct acgtgaccat 300

ccaagtggat ggcaatctgc tggcgaccac tgacctaatc cattacaatg accatggtaa 360

ttggatctag attctactcg tggataacct 390

<210> 40117
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-B12

<400> 40117

gttattctga gattgtaaca caattaaacc tgtcagatga tgatgtagtg cgtttgctcc 60

attctgtttc ttgtgcgaag tacaagatcc ttaacaagga accggctagt agatccatct 120

ctcccaatga tgtttttgag ttcaattcaa agtttactga cagaatgaga agaatcaagg 180

ttccactccc tcctgttgat gagaagaaaa aggttgttga agatgttgac aaagacagga 240

ggtatgcaat tgatgcatca attgtgcgca ttatgaagag ccgcaaagtt atgggtcatc 300

aacag 305

<210> 40118
<211> 283
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-048-Q1-K1-C9

<400> 40118

caagatgtca tgcacaaaca tttcgatgtt agccttgntc ctcctggtcc taggcttcat 60

gtttcatgtt gagaaggaan aggcaaatgg catcgatgct aaatcttcct gtcctgttgg 120

ttccttctac atcaccaagt tgttcgcctt cggcaatgtc aagacataca actctaatgc 180

tgttcatgaa gcatggtcat cttcgttctg cttcactgtg aatcatacaa tcctcatacc 240

caatggcgac ttccttgtcg gacaactcaa cttcacaagc cct 283

<210> 40119
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D10

<400> 40119

cggacgcgtg ggcggacgcg tgggccgcac cctttcatca gcctgcctgt ccactgttgg 60

cttggtgact tcctccgctc cgctcccctc cgctcccgaa cggtcgatct ttgcatggca 120

gcagcagctg gctccaaggg gcgggcgatc gctggaagct tcgtcagccg cgtcctcgcc 180

ggcaaggccg cctcgccgag gagggccgtg cacgcctcgg cgtacgacaa gaacctggag 240

gaacaggtgc gcccggcgtt cgtgccggac gatgtgatcg gcagcgccgg gagccccgac 300

aagtactgga gccccccaccc caagaccggc gtgttcggcc ccggcggcgg tggaccccaa 360

gct 363

<210> 40120
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D11

<400> 40120

taatccgggg gtccacccac tcgtccgtct ccttatctct aacgatcttc tttttcctac 60

tttcgctccc ttttgctcat cgctagtgcc ttgcggtctt ttacctcctg ctctagcatc 120

tgctatccat acttacagtc ttcgtttgat gctggaatcc tgattggcag gttcaatcac 180

atagctcgat cgccatgtct ttcactgtct ctcatgacaa gtgctaagcc tgcgactaga 240

ctgtccacat catcgacctg ctctccgcct actgcttctc gtaccacatg acattcttca 300

agtgcatcca ctgcaatgac gtcctctcaa tcagcagata ctctctcatg gacggagtcc 360

ttttctttat gactcactct gtacagcttt tcaactatac aggtaccctc tcataaaact 420

tttaacgttg agcatattca aa 442

<210> 40121
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D12

<400> 40121

ccgcacctgg acctattgag cagcgttgga ctgtccgcag caagagcccg atgagcccgg 60

catcaagctc tgaagaagat gatgtatttt catgggttgg tattataatg tatctgccaa 120

catctgatgc tcgccaaagg aaggaaatca cagaggagtt cttcagttac aggagcctgg 180

cgcgaagtct ctgggatgat tattccgctt atgaacactg ggccaagatc gaggttccaa 240

aagacaagga cgaacttgcc gaactccagg cccggctgag gaagcgtttc cctgtcgatg 300

catataacat ggcacgtatg gagctggacc ccaacaaggt gctctcaaac gccaagttgg 360

agaagatgtt ccagtgttgg ag 382

<210> 40122
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D9

<400> 40122

acgacgtctt ttttcccttt cgctcccgtt tgctcatcgg aggtgccttg cgataatgga 60

ccgggtgcac gagcatcggc tagccatact tactgccttc gtttgaggct ggagtcctga 120

ttggcaggtg caagcacaga gctcgatcgc catgtctttc accggcactc atgacaagtg 180

caaagcctgc tacaagactg tccacatcat ctacctcctc accgtctact gcgtctcgta 240

ccacaagaca tgcttcaagt tcatccactg caaggtcgtt ctctcgatta gcagctactc 300

ttccatggac tgcgtcctgt actgcaagac tcactttgaa cagctcttca aggagacagg 360

gaccttctca aagaactttc aaggtggagc atcttcaaac aagaacgacc tctcaaaggc 420

tccaagcaag ctatcatctg cattctctgg aactc 455

<210> 40123
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E10

<400> 40123

gaagacagac gacgactcca cgagccccaa gaagagagcc atcgcggctg ctgatgacga 60

ttgcaagcct gccggtgacg agtcaacgtc gtggaagcgc ctcgtggacg gtatgcgccc 120

gctccgcctt cgcgggcagc tggagtacta cccgtcgtca ccgccgtcac cgccgctggg 180

ccacgccgat gtgtaccatg acgtgatcct cccgccgtcg tcgcaggcac ggttcggctt 240

cgagatcaag gaggtgggca tgaccagccg ctacgcgtcc gctgaggatc tgcaccagat 300

ggacagcgac caggaagagg gtgctgaggg tggcgatgac ggtgacagca gttgcccaca 360

cgccatcgac atgcatgcgg aggagtcatc accaagtcta tgagcag 407

<210> 40124
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E12

<400> 40124

ggcagggcat atttctcagc aacctcagca cacacttgta ctggagatgg caatgctatg 60

gtcgcgacgt gctggtttac ctcttcagga tcttgagttt gtacaattcc atcctacagg 120

catttatggt gctggatgcc tgattactga aggttctcgt ggtgaaggtg gtatccttag 180

aaatagtgaa ggtgaacggt tcatggaacg atatgctcct actgcaaaag atcttgcttc 240

tcgtgatgtt gtttcaagat caatgacaat ggaaattaga gaacgacgtg gtgtagggcc 300

attgaaggat cacatttatt tgcatctgaa ccatctgcct gctgacgttc tcaaagaaaa 360

gctccctgga atttctgaaa ctgctgtaat tttggctagt gttgacgtca ccaaggagcc 420

cattccagtt ttgcctactg tgcactacaa tat 453

<210> 40125
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-F10

<400> 40125

cggactcgtg ggtgcgggca caggttgcga tggttgtggc gttggtgttc ttggtgagcg 60

gcgcggggtg cggtcctccc aaagtccgcc caggcaagaa catcacggcc acctatggca 120

aggactggct ggacgctaaa gcgacatggt atggcaagcc gacaggtgcc ggtcccgacg 180

ataacggtgg cggctgcggg tacaaggacg tgaacaagcc ccccttcaat agcatgggcg 240

catgcggcaa catccccatc ttcaaggatg gtctgggttg ggggtcctgc ttcgagatca 300

agtgcgataa gcctgtggag tgctccggca agcccgtggt ggtgcacatc acggacatga 360

actatgagcc tatcgcggcg taccacttcg atttagcatg cacggcgttc g 411

<210> 40126
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-G10

<400> 40126

ctcaagctga acgggactat gttcttgcag agtttaagag cggccagagc cccataatgg 60

ctggcgcaga tgtggcagca cgcggtcttg gcatgatgat tcatttgaat attacgatta 120

ggtagccgtt ccaagtgctc aagggtgata agtcgcatgc tcgctgtgct gcgactggtc 180

gagtgaactg aacttgtgga tcggtggtgt ataccaaggt gccatcatgt ctaaggtaga 240

taatttccgc ccgtggttta cctcatttga gcgcgagcat tgaccacgtt acacaggcag 300

tctaactttg agctatcatg gtaat 325

<210> 40127
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-G11

<400> 40127

gcaaaatagt cgtgataatt tttggatttt atgtggaacc tgggagacca gttttcaaat 60

aattgctctt agtgatggag gaattatcca aaccttcagg caccccaagg ttgtgtttac 120

cgtgttgcac atttccttga ccgggaacgt ggttgcaact ggtagttatg acacaactgt 180

tatgatctgg catgcatttc gtggaagacc aattgataag aaaatcaggg gtgccaattt 240

tgaactttc 249

<210> 40128
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-G12

<400> 40128

ctcctcgagg accgccgtgc aggagcggag ctccccgtcg cttctctctc cgccttccga 60

gaggcccgac ccctgatacc acgctgaggg cggtggtatt aggagattag cgatggcgag 120

gtggcggccg gcggcgctgc tggtagtggc tctggcggcg gttctatcgg cggcgtggcg 180

ggcggatgcg ctatccgtta ccgtgaccga caccgagtgc attcacgagt tcgtgcccta 240

tgagggcgac accgtgttcg ggaacttcgt cgtcg 275

<210> 40129
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-G3

<400> 40129

ggcacgacgt cgaagagctt ggccaggagg cggccgtcgt tgatgtcgcc ctccacgacg 60

aaactcgtcg tggctgccca gcagcgcgcg ctgcgccttc ttgagcgagg ggtcgtagta 120

ggagttgaag ctgtcgatgc cgacgacgcc gtcgccgcgt ttgcggagcg ccagcgagca 180

gtgcgcgccc acgaagcccg cggtgcccgt gacgagcacg gacagccccg cgggcgcccc 240

aggcgccgac cgccgccgcg gcgacgccga cgcccggatc tggcgcttcc agtgcaaccc 300

gtcccaggac gcccggatct gtcgcgcccg gtgctggtca tgttccactt c 351

<210> 40130
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-G4

<400> 40130

gtcgagtgtc caatatcaga gaaccaggac tgatttgtgg ccaccgccgt gcgtcttcac 60

gatcgagggg gaccgtgatc gggtcaaagt tgcgcgcaat accttgggga cttgctcctg 120

ggggtaatca tgagcgtgga gccggggatc ccacacaatt tgtcgccgga gttggagcaa 180

actcgcgaca ccggggaaca ccgtgggcag catcgatttt tccacagccg tagacgagca 240

agcaaccgat gaccccgata ctcagcaggt ggataatact gagcaggagc tcgttgaatg 300

agaagaacag gtgattcagg aggaaccaca tggcgaggag tttgatctga tctaggtggc 360

gtgtccccag ttgacttttg cgccaaggac gatccttagt tcgttttata tttatcttta 420

attttggaat aa 432

<210> 40131
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-G5

<400> 40131

gttgatgacc cagagctact ggaacttgta gagatggagc ttcgggagct cctcagtttc 60

tacaagttcc ctggtgatga gattccgatc atccgtgggt ctgcgttgtc tgctttgcaa 120

gggaacaacg atgagatagg aaagaatgcc attttgaaac taatggatgc agttgatgag 180

tacattcctg atcctgtaag gcagcttgat aaggctttct tgatgccgat agaagatgtg 240

ttttctatcc agggtcgtgg aactgttgtt actgggcgtg ttgagcaggg aacaattaaa 300

actggcgaag atgttgagat cttgggtttg acacagagtg gtcccttgaa gactacagtt 360

actggtgttg agatgttcaa aaagatactg gaccatggag aggctggtga caacgttggt 420

cttcttcttc gtggtcta 438

<210> 40132
<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-G9

<400> 40132

cgatcgagct ttcgttatcc tcctcgatct taattacagg tcatagctaa gcaggtctga 60

caggatgtcg tggcagacat acgtcgatga gcacctgatg tgcgagatcg agggccacca 120

cctgacctcc gctgccatag tcggccacga cggcgccgtt tgggcccaga gcaccgcatt 180

cccacagttc aagacagagg agatgaccaa catcatgaag gacttcgacg agccc 235

<210> 40133
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-047-Q1-K1-H1

<400> 40133

gcagaagttg cggttggcct cgtcctcctc ttctccgtcg cggctcagat ctctgcgtgc 60

gtcgatggcg tcgttctcgg aggctccccc cgggaacccg aaagccggcg agaagatctt 120

taagaccaag tgcgcgcagt gccacacggt cgacaagggc gccggccaca agcaaggtcc 180

aaacttgaac ggtcttttg ggagacagtc gggtaccact gcaggctact cctactctgc 240

gggaaacaaa aacaaggctg tagtctggga agaagacact ttgtatgagt acctgcttaa 300

cccctaaaag tacattcctg ggaccaagat ggtcttccct gggctgaaga agccgcanga 360

gcgtgctgat ctcatcgcgt acctgaaagg agcaactgca tagttcattg acatgccttt 420

tgccatgaag agaaaaattg tttg 444

<210> 40134
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H11

<400> 40134

tcctgatcgt cctgttcctc acagcagcag ccatggcggc cgagccggag aagcaggcgg 60

cccccgcggc acaggagacg gccgtgcaca tcgtgtacgt tgaccgcccc gaggacgccg 120

accctgagga gttccacatc cgcaccctca cccccgtcct cggcagcgaa cagaaggcca 180

gggacgcagt gctctaccac tacaagaacg ccgccagcgg cttctccgcg aagctcaccc 240

cccagcaggt caaggatctc aaggagcaac caggtgtttc tca 283

<210> 40135
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H12

<400> 40135

aagaggatcc tcatcgcctc gctcctcgta gtcttcgtct cggccaccgc aatgctggcc 60

tgcagggatg ccatcatagt cgggtcccca tccgtttcct agtcctccgc gtgcacccaa 120

accctcagta gttccacatg cgcaccctca cccacgtgct cggtagcgaa cagaatgcca 180

aggacgcatt gctctaccac tacaagaacg ccgccagcgg cttcttcgtg aatctcaccc 240

tccagcatgt caaggatctc aaggagcaac cacgtgttct ccatgttgtg ccgagccaga 300

cttaccaact acatggtcct gggtctggca ctcaccaggg cacgacacac accttgggcc 360

ttatgtg 367

<210> 40136
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H2

<400> 40136

cccacgcgtc cgggacctcc aggttatggt cctggagaaa actttcttca ggtcagttca 60

aggattacta gctgtgagca gagtgtgata atggctccta gcgctatcgc aagaggagtt 120

ggtccaccag gatatacgcc tggagaacac cagggcaatg gggctccatg gaatacaagc 180

tatgagcgaa gaccgtttac gagtcctgcg actagctcaa gagaagtcgg acctccagga 240

tatgggcctg aagaaaacca aggcagtggc atttcctgta atacaagcag agagcaaata 300

ttgtttatga gccctacaac catctcgaga gaactttgtt caccaggata tttgcccaga 360

gaaaaccagc gcagtgacac ttcatggaat acaagctgcg aatccggact atttatg 417

<210> 40137
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H3

<400> 40137

gcttgcgtgt gtagttaagt accgatcggt aattttatat tgcgagtaaa taaatggacc 60

tgtagtggtg gagtaaataa tccctgctgt tcggtgttct t 101

<210> 40138
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H4

<400> 40138

cccacgcgtg cggtcctagc gtctgccttt tcagatacat cgactcgctc gggccgtccc 60

tgacgttgta cacgttcgaa ggtgcggtag acggcaagcg agcgatttga ttctacatga 120

atgccgagta cgactacctt ttcaaacttt tgctcattgg tgactctggt gttgggaaat 180

catgcttgct tctcagattc gcagacgatt gttatttgga cagctatatc agcacaattg 240

gggttgatct cgaaattcgc acagggtggg cctgattcgt agaccatagc acgtccaat 299

<210> 40139
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H5

<400> 40139

gcaccctcca cttggtgctg cgcctcaggg gaggcatgca gatcttcgtg aagaccctga 60

gtggcaagac tatcaccctc gaggtggagt cttcagacac catcgacaac gtcaaggcca 120

agatccagga caaggagggc atcccaccgg accagcagcg tttgatcttc gctggcaagc 180

agctggagga tggccgcacc cttgcggatt acaacatcca gaaggagagc accctacacc 240

tggtgctccg tctcaggggt ggcatgcaca tctttgtgaa gacactcact ggcaagacaa 300

tcacccttga ggtggagtct tcggatacca ttgacaatgt caaggccaag atccaggaca 360

aggagggcat tccaccggac cagcagcgcc ttatcttcgc cggcaagcag ctggaagatg 420

gcc 423

<210> 40140
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H6

<400> 40140

aaaaaaaggg caacctgatg caacagatgg tgggccaaca ggaagagagc tgaatatcgg 60

acaagcaagt ttccattcag aaccgagcaa cgcttcaaac cagttcatcc cagaccaatt 120

gatgcaggga cattatgtgc ttggccacaa tttcgggcca ggtagctcac ataaccttca 180

cgacaatctg aaccagttcg atcaggcttc ctcggctcct accttgcaac aacagccgtt 240

taccgggaat ggtcaactga cccagggata tcctggtgat atgcatgcgt tgcagtttgt 300

ggagccaacc ccccagattg accatcagaa tggcgatgag ggtcagtcgt caataccagt 360

gtgggatttt ctttgagctg cctgcctctg gcactttgcc atccttccct tcacgcgaga 420

ggccgcgttt caccct 436

<210> 40141
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F9

<400> 40141

cccacgcgtc cgggacgcgc ccgtctacgt cacggtaggc gatggcggca acatcgaggg 60

catcgcggac aacttcacgc agccgcagcc gagctactcg gccttcaggg aggccagctt 120

cggccacgcc accttggaga tcaggaaccg gacacacgca tactacgcct ggcaccgcaa 180

ccaggacggc gccaaggtcg tcgccgacgg cgtctggctc actaacaggt actggatgcc 240

caccgacgac gacatcaact gatgagtgat gatcacatca tgcatatgcc atcgccacca 300

ctcatcaccg gatccgggag ttcg 324

<210> 40142
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E4

<400> 40142

gtgcagaaga gaagcagaag gtcacaccgt tcactgtcat gataggaggg aaagcgtttg 60

caacatacac taatgccaaa agaatagtga aattggtgaa tgatgttggt gctgttgtga 120

acaatgatcc cgaagttaac aaatatctga aggttgtctt tatcccaaat tacaatgtat 180

cagtggctga agtgcttatt actggtagcg aattgtcaca gcatattagt actgctggta 240

tggaagcaag tggaacaagc aacatgaaat tctctctgaa tggttgtgtt atcattggca 300

cccttgatgg agctaatgtt gaaataagag aggaggttgg agaagataat ttcttccttt 360

tcggtgccaa aaccgatgaa gttgctgggc tgaagaaaga cagagaaaat ggcctgttca 420

aaccagaccc acgtttt 437

<210> 40143
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-047-Q1-K1-E5

<400> 40143

cggacgcgtg ggaggagctc gaggatacca tctcaaagaa aagaaggcgg cccattgaca 60

acacaccatt ctacagtgat ggggaaagcg aacagcttga ttcacagttg aaaatgttcg 120

agtcaggtgt tctcaatggg ctcaatgaac ctgagctgga gaatttagca gtgaacattc 180

aggagcttgg gaagggaagc atagatgatg ggaacttgac tcaagttagt gaccagtcag 240

agctgaacga cgacttctgg gcagagcttt tggtcgaaga ttttggagac aaggcaggac 300

agccagagtt ggagggaaga actgaagacg tgaatgacct tgctcaaaca actgggtatc 360

tgagttcttc tagcccaaaa tagaaccagn tccctaatgg ttgccccaca atcac 415

<210> 40144
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E6

<400> 40144

tctgcatcta acaagggagt caagtacaca atcaacagga tgaggctgta atgtcatctg 60

ctgattccaa cagcattggt cttgctggac ctggtgtgcc caggttgaac tctagcgttc 120

ggcgaagctt gagcgttgct acgagcatgc atttgcataa tgatgtggaa gacctaaaga 180

tgttacttga ggcctacttc atgcatctgg atggaattcg taacagaatc ttgtcggttc 240

ggcagtatat cgatgacaca gaagactact tcaacattca acttgacaac cagcgtaatg 300

aactaataca actccagctt acactgacca ttgcatactc tggcatagct gccaacactt 360

tcattgttgg agctttagca atgaacatgc cgagctctct gtacaacacc gataac 416

<210> 40145
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E7

<400> 40145

cgcctgggct accgcgccgc tactgcggcc tcccgcgaca ggtgcctagt ctccatcagg 60

tgccatgtct tcttcgggct cttcaccgtc gacgtgcact gccagctctg catgtataca 120

cccaagtcct ttactgggtc cgccgccgcc cctatgtact tcgttaggtt tagtatgttg 180

ttaagtttgt aattctaggg tctggaggga agcatagatc tcaagagggg tgaaatttgg 240

tggtaatttc ctgagaattt caaggagaca agggcgtgga ggttggttct ggagggatct 300

gtgagcaca 309

<210> 40146
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E8

<400> 40146

ccaagcccga caagcgcctc atcctcatcg gtccacctgg ctctggaaag ggaactcagt 60

ctcctattat caaggatgaa tattgcttgt gccatttagc cactggtgac atgctgaggg 120

ctgctgtggc ggccaagaca cctctaggta tcaaagctaa agaagctatg aataagggag 180

agcttgtttc agatgatttg gttgtgggca ttattgatga agctatgaag aaaccctcat 240

gccagaaagg tttcattctt gatggctttc ctagaactgt gactcaagca cagaagcttg 300

atgagatgtt ggcaaagcaa ggtgccaatg ttgacaaagt cctgaacttt gcaattgatg 360

atgctgtatt ggaagaacgg attactggtc gttggatcca ctcagccagt ggtaggactt 420

accactcaaa atttgca 437

<210> 40147
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E9

<400> 40147

cccacgcgtc cgcccacgcg tccgctcgtc acgcgagata tttctacggg acgggacccg 60

cgttgcttcc ccgcctcgcc gtcccgcgcg cgccagccgg gcccggggaa gccatgaact 120

gcctccagaa cctgctcaag gagcctccaa tcgtggggtc caggtcgatg aggcggccct 180

ctccgctgaa tctggcgatg gtccgcggcg gcagtcgccg atcaaacacc gtcaaaactt 240

tgcaggcccc tggggcgtcc acttccggtg ccgagagcag cgccgtggag atgggcaccg 300

agaagtccga agtgtacagc actaacatga cgcatgctat gggagcagcg ttgacatata 360

gacatgaact cgggatgaac tacaatttca tacgcccaga cttgatt 407

<210> 40148
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F1

<400> 40148

cgatcccgca cccctgactg tcagccgcga tccgctcttt tttgcgtgca gcggcggagc 60

aggagagatg gcgtcggagg ccaaggacgt gggcatcctc gccatggaca tctacttccc 120

gcccaactgc gtgctccagg aagagttgga aacacatgat ggcgtgagca aagggaagta 180

taccattggg cttgggcagg aaagtatggc attttgcact gaagttgagg atgttatttc 240

gatgagcttg acagtggtga agtccctcct gaaaaactat aacattgacc catagtgcat 300

tggacgtttg gaagttggca gtgaaacagt aatagacaag agcaagtcta taaagacatg 360

gctgatgcag atatt 375

<210> 40149
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F10

<400> 40149

agcgagagag atccggagca gccgcagtcc caccgacccc gccgccggtc gccctccatc 60

tgctgggcgc tgcctctcgt ttctcttttc aataatcaag atgagccgtg gtggtagtgc 120

cggtggtggt caaagttctc tgggttatct ctttggaagc ggtgagcccc ccaaaccatc 180

agtggcacca gctgcaagtg ctccacctgt tgagaaacca tctgctgcaa agactgatgc 240

ggccaagcag gttgctgctg gggttaccag ccaaaccaat tactaccaca gggctgatgg 300

tcagaacact ggcaacttcc ttacggaccg tccttcaacc aaggtccacg ct 352

<210> 40150
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F11

<400> 40150

ggcccctagc cctcgccctc ccttttctat tgctccgaag cccgagttgc gagctgtctc 60

ctgcactctt ctccttcact gtcgcagccg ccccttgtag aagcttcgag gctgctgctg 120

ctgcgcccat ggccgcggaa ggcaagacgc cgtccctcgc cgaggagtat tcacttccac 180

cacaggaagt tccagtggaa aaggcagctg aggagaagcc ctctagtggt actgagtctg 240

aagctgctcc ctcaaccaat gatgaaactc ctccatctgt agaagacaag aatggaactt 300

ctgaagtaca agatgctgct gaaaat 326

<210> 40151
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F12

<400> 40151

gattagttca gtcaaggaga tctcttcctg cagatatgtt gtaacgattc aaagtcccat 60

gctttgcaaa aacccgttat tccaggaaga aaaacgaacc ctctccatcc actgcaatga 120

gttgcctgct agagcggaat ccagcgcgga ggatgactcg cttccaaaag aagctcagat 180

ttccatcatc cccgatcagg atgagctaca tgatttccca gcctatgcta cttgatttgc 240

ctccaataat tatgtttgat gtagaaaaaa acaccatttt ggaggcgcat gggcaactga 300

gcaacactat gtattaacta tctcgtagat actacagcag aggctccttg taaagcaggt 360

tgagacgatc attctgcagt tcttattata taagatgatt acgaaggtaa catgtttggg 420

a 421

<210> 40152
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F2

<400> 40152

tgtcgttctt gaaataaacc ctacctattg ctgtagtgct gttgttgatt acagaattat 60

ttactccgtt ctgaagttga aagaatttct ggacaacaag atatgcgaca caaatatttg 120

acggtctcaa accgtgctaa ccacccaaag aagttcgagg tgctgccagt ttatcagagt 180

tcttttgctg caggggatga tttttcatcc cttactgatg atagaaagac aagagcattg 240

gttcatgcta tggtggagat tctttttttа tgtggaactg ggaaaagagc tgttgtagca 300

tctgttgcac gtgccaatcg tgggaaaatt gatgcagctt tggaagatct ttctgtcgaa 360

tcagcagtgg atctgcagaa agttcttaaa acaagtacat ttacttcaag gaaagatgca 420

ttcaacaccc ttttggctaa catt 444

<210> 40153
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F3

<400> 40153

agcagttggc tcaaaaagca agagacaata tcttaaaacc agcagattat gagggtggca 60

cgttcacggt atcaaacttg ggaggtccct tcggaatcaa acaattctgt gccatcataa 120

atcctcctca gtcagcaatt ttggctattg gttctgccga gaagagggtg atacctggtt 180

ccgccgatgg cctgtatgag tttggttcgc tcatgtcagc tacactgagc tgtgaccaca 240

gggttatcga tggtgcaatc ggtgcggaat ttctgaacgc attcaagggc tacatcgaga 300

tcccgacttc gatgctgctg tga 323

<210> 40154
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F4

<400> 40154

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggcg gacgcgtggg 60

ggagttcaga tgattgccag ctcctcacat gtgggcagga ggaagccatc agacgctggg 120

atgttaaatc tggcaaatgt cttcatgttt atgaacatcc tggcattggt ttgagatcat 180

gtgcttggtt tcgagatgga aagcaaatat tgtctggtct agctgatcaa acctttgca 240

tttgggattt agatggtaag gaagtagatt gctggaaagg gcagagatcg gcaacaacat 300

ctgattttgc tgtagcaaaa gatgggaatc ttataataag cttgagtagg gacaatgcaa 360

ttcttctatt tgatagggag acaaaacatg agagaataat tgaagagggt agtacaatta 420

cttcattttc tcta 434

<210> 40155
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-047-Q1-K1-F6

<400> 40155

cgttgtgcag gacctcaagc ccgacatcca ggtcccagat cttgacagag tcctgcgtcg 60

cagcgcagag ccagtagcgg ttgggtgaga agcagagaga gtggatgatg gagcccgcgt 120

tcagcgagta cagcctcttc ccctcagcca aatcccacag cagagtaaca ccgtccttcc 180

cgccggaggc gcacagcgac ccgtcggggc tcacagcgac ggcgttaaca tagccaccgt 240

gcccatccag agtgcagcgc agcttgcagt tggtaaggtt ccagaccttg acggtgcggt 300

cccaggatcc ggagacaatg gtgggctgga aggtgtttgg ggagaaccta acgcaggaga 360

cccacccgtt gtggccctcg ccgncgccga ggtcgccgcc gatggtgtac ttgcactcgc 420

cgagagtg 428

<210> 40156
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F8

<400> 40156

aaaccacgag cgcgaggcac gacctacatc gaatcggcca cgaaccacca tggcggcctc 60

gcgcgcgctc cttcccagcc cgcaggtgag ccctgcgagc gcgcgggtcc gcctggccgc 120

ggccgtgccg tcgtcgctca cgctcgcggc gcgcggcggg gccggggccg gcgcgcgtct 180

ccgcgtgcag tgcgcgatcc tgtcgtcgcc cgcgcctgtg gcgcccaccg agtcgaggcc 240

ggcgcgccgg atctcgccgt ccgcgccgga cggcgcgctg cggcccaagc cggcggtgct 300

ggtcgccgag aagctgagcg aggccgggct ggccgtgctg cggcagttcg cggacgtgga 360

gtgcgcctac ggcatgtccc ccgcggagct cctcgccaag gcggcgcagt tcgacgcgct 420

catcgtgcgc agcg 434

<210> 40157
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E3

<400> 40157

ctcatcttcg tctccgatct gccccccgct cagccgcgga ttctttcgct gcgtggtggg 60

acggagccga gtagtgcggt ggtagccgag cgctccggcc atggcgttct atcggggcct 120

caccgcagtc tcgagactgc gatcacgcat ggcgcaggag gccaccacgc tgggggggtgt 180

gaggtggctg cagatgcaga gcgcgtccga tctcgatctt aagtcccagt tgcaggaatt 240

gattccggaa caacaggatc gcttaaagaa gctcaagtca gagcatggaa agacccagct 300

tggaaacata actgtggata tggtccttgg tggaatgaga gggatgactg gaatgctttg 360

ggaaacattc ctacttgatc 380

<210> 40158
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D1

<400> 40158

cgacttctgc tcgacgctgt gcgagggcaa ttaggggacg gacctggtcg tgtgcaagga 60

gtcctgcgct ctctcccagc agtccaacct ggtgctgtac ggcaggatcc agtgcaaggg 120

caagtgcacc gagcagaagg gcatcacggc gccggccatg aaggtctgcc aggaggagtg 180

cgacaaggcg tacgtggtga aggcggccga ggtcaccaag gcctgcagcg tcacctgcgc 240

caaggagaag aacccgcgcc tcagcgagaa ctgcaagagg tcctgcaccc cttctccttc 300

ttgaagcgaa gccccttgaa atgaatgaac catgcatgca tgcatgtatg catgcgccgg 360

ggtgacgtgg ccgtcagctc atgcgctgaa cgagtctata cgta 404

<210> 40159
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D10

<400> 40159

cccacgcgtc cggcacagac aatgcgatga gagccttgtt cctcctggtc ctcttctgca 60

tcgtgcatgg tgagaaggaa gagtcaaagg gcatcgatgc gaaagcgtcc gggcctggtg 120

ggtccttcga catcaccaag ttgggcgcct ccggcaatgg caagacagac agcacgaagg 180

ctgtgcatga ggcatgggca tcggcgtgcg gcggcactgg gaagcagaca atcctcatac 240

ccaagggcga cttccttgtc ggacaactca acttcac 277

<210> 40160
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D11

<400> 40160

cggacgcgtg gggccttcac cgtcaccgaa ctgaagtgat gtttaagaaa attttagaac 60

tgacgaggat tgggtgggat tggcactgat gttcttgctg gtgcacattg tgaaacaatg 120

gatgttgttg ctggtttggc tttaatccat accgacttct accgctttta cagtgttttc 180

aaacattcag ctttaatccg aagcgaacaa ctcatctgat accacgtcgc tggcgaccct 240

cacgacggat gcgcctagcc gcgatgactt gatggcgcag aggccgtggc taccctcgcc 300

cccgactcat ccgtcgtatc attagcgcca ggcaggaagc acaagttgaa cgccaccaca 360

agcacggtga ggattttggc agcctccacc gtcaccgaac tgaagtgatg tttaagaaaa 420

ttttataact ga 432

<210> 40161
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D12

<400> 40161

cgcgctcgca cttgcggtcc tcctcctggc cgccgccgcg gtggcgccgc tggcctccgc 60

cgacggcgtg aagtccgtcc ccatccccgg cgccaaggag gccgccagcg gcgccaagat 120

gttcgacagg gaggccgacg ccggtcacga cccggtcagc ggcctgccgg ccgacccggc 180

gcccgacgcg cgcccctaag gctacgcacc gtcgtcgttg tcgtcaccgc cgtcgccgtc 240

ccgacccgtt ttcgctgaac accacgcgcc ttgtacgtgt gcttgtgatg ttcggcctct 300

gcgtgcgttt tgcattgctt gcgtgcgttt tccttcggct gccgtgccga ttggtcgtgg 360

tggacgcagc gccatggata acgggatcta agtactcacc cgtgcttgct gtacctgtac 420

ccatttattt tgccattctc tctttttttt 450

<210> 40162
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D2

<400> 40162

ccaaggctgc tgaacacttt acaaagacat tttttcatac taaaccatgc ctctaataaa 60

gacgcctagg ttgtcactac agagagtctc ctgctaccaa actctcacac cccatacctg 120

acttgaccaa cacgcacgcc ctgactgacg cataagctca tgcatacttg atttgattta 180

aacaccaatt ctgtactttt actgaacatg ctactctttt catcattc 228

<210> 40163
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D3

<400> 40163

caaaggcaca acacatacag gaaaagcaag ctagaatcat cggaataatg gctcgagcat 60

gtgtgatcct cgtagtgctc ctgctggccg ccatcgcggt ggcaccgttc gcgggcgccg 120

cacgcgtgga cgtcgaggag ggtacgtcca tggcatccat cgatgcaccg gaggcggcgg 180

tcgatgctcc cgctactaga cgcgactccg tgtcatcccc agactcatcg tcagaggcgc 240

cctgcagcag caactgctcc gactagacgc aaaaacctct tcattctgtg gaataactaa 300

cagtatatac gttgcaccct gatgatatat aaacatgtac gtgcattagc gtatggaatg 360

cgagtggcaa acacat 376

<210> 40164
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D4

<400> 40164

gtgcagtgaa gcatattttt gttgacaaaa atactgcagg cttcgtgtat ctgcagttcg 60

atagtgtaac tgcagcaggg aaggcccaac aagcacttca tggaagatgg ttcgccggaa 120

agatgattac agcgacattt atgtccgatc aggaatacag tactaagttc ccaaacttgt 180

gagcatatgc ggggaagagt tggtcagacc cgcatagttc gttcggagag tttgctagtg 240

ctgtatcgtt ggatggtaga ctagacgaac accttattga ttgtatgaca ggatagtttc 300

agttgcagcg ctggtcgtgc gtacaatgtt tgatgtactt tatttacggc atcacacaca 360

gtgaccatcc cttattttgt ccaccgaatg aaatgcccta tgatctcc 408

<210> 40165
<211> 336
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-047-Q1-K1-D5

<400> 40165

aggagaacca gcagcctcca ataagagcca gccagagaaa ctaataaaac tctcgccgcc 60

gccatccgag cgaacaagcc aaccgacccc gtccccaagg caatccgccg ccgacgtacc 120

accaccaccg caggagcgag atggagatga agaggatcct cttcgccgtc ctcgtcgtca 180

tcgccgcctc ggccaccgca gtgctggcct ccaccgaggc cgccgccgcg ggcgccccaa 240

ctgcctccga gtcgtccgcc gaggctcccg ctggcgctgg cgctggcgct gccgctggcg 300

ccgacgactc ggggccctac gncagcagcg gcgcgc 336

<210> 40166
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D6

<400> 40166

gtctgatcat accattgaga gatcagactg gtatggacga tccttctaat aatgcctagt 60

agattgtgac tacagctatc tcagtggtaa caatctctca ggccccatac ctgacttgag 120

cagcatgcac gccctgactg cagtgtatgc tcaagcatac ttgattcgtt ctgaacaccc 180

attctgcaat tttactgaac atgctacgct tttcatcatt tgaaaaaagg cgccttgata 240

gcaatcagtt cagtggaacg atcaacccat taatggaaaa actagccaat ctcaaggagc 300

tgttagtact cgatatctca tttcataatc tatctcaaac agtgtctgca gacattcttt 360

acctaatgca ttttctcaaa aaatggcaga cacctgaaca acagcaatct cacgggcaaa 420

ataccagatg gtctgaaaaa 440

<210> 40167
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D9

<400> 40167

cccacgcgtc cgtccacgcg tccgaactga ttacagccga gcgatctcct ctccctctcc 60

ctgtgcgatc cattctccag cgcagcgaag taaacatgtc tgaccgggca aagatgtctt 120

ggcaggcgtt cgtggacgag cacctgatgt gcgagatcga gggccaccac ctcgcggcgg 180

cggccatcgt ttgccacgac ggtgccgact ggtcgcatag cacggcgttc cctcgagttc 240

aagaccgagg acatggccaa catcatgaat gacttcgacg agccagggca ccttgcgccg 300

acaggcctgt tggctggtcc taccaagtac atggtcattc aaggcgagcc tggtgccgtc 360

atccgttgca agaagggatc aggaggcatc accgtgaaga agacagggct ggcactc 417

<210> 40168
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E10

<400> 40168

ggaaggagga gatcagaagc atcagccatg tcgaactcgg cgtcgggaat ggccgtttgt 60

gacgaatgca aactcaagtt cctggaactc aaggcgaaga ggagcttccg tttcatcgtg 120

ttcaagatca acgagaacgt gcagcaggtg gtggtggaca ggcttggggg accaggtgaa 180

agctacgatg cgttcagggc ctgctttccc gccaacgagt gccgctacgc ggtgtttgat 240

tttgactttg tcactgatga gaactgccag aagagcaaga tcttcttcat ctcttgggcc 300

ccagatgcat cgagggtgag aagcaagatg ttgtac 336

<210> 40169
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E11

<400> 40169

gagacttctc ctttagagca gaatttaaga tggaactatg caccggaatt gctgggtgag 60

cctagtcttt ctgactcaaa tgaaacacca aagcagctgc ctatagtcat cagtgcaaaa 120

cgaaccggca acatagctcg ctttatgaac cacagctgct cacctaatgt gttttggcaa 180

ccagttctct atgatcatgg tgatgaggga tatccacata ttgcattctt tgcaattaag 240

catattcctc caatgacaga gcttacctat gattatggcc agaaccagcg taatagtatt 300

caaatgggaa cccattctgg ttttcggaag tctaaaagtt gcttatgttg gtccccgaag 360

tggagaggtt cctttggcta aaaaccagcc ctataaagaa tataatggat cataatactc 420

catttcaaa 429

<210> 40170
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E12

<400> 40170

acctcctctt cccccgccgg gcaacaactc agccgccgca accgccacat cagccatggg 60

cgcctgcgca accaagccca agacgcttga ggggcaggcc ccagctgagg ccgccgtctc 120

cacacccaag gttgcgcccg aggccactcc aatctccgtt gaggttgcgg ctgatgaaca 180

ggtagctgag aaggtggtgg tggaggagcc ggctgcggcg gccgacgttg agcatcagaa 240

ggctaatgag gtgctcgctc cagaggcggc cgtcgccgag cccgaccaca aggaggagga 300

agccgtggag aagaccgtcg tcgaggagga gaagccagcg gcagcagccc atgcagagga 360

aaaggtcgcc accgccgccg agaccacgac ga 392

<210> 40171
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-047-Q1-K1-E2

<400> 40171

gcgctggaca aggggcagat ggcttcggcg gctgcagcgg tgatcccgga cggccggcga 60

tggagcaaag gtccgggctc ctcgtcgtcg ccggtgacga cggccatttt cctcttcttc 120

ttcggtgtcg tggtcggcgt cctcgtgtcc gcccgctgga tcaccaccac gactcatctg 180

tcgaccacca atctggatca gtggagctca aagctggcta tcttaaccgc gacgcacacc 240

acctcctgca tcccggccat ccccgcggca ccgccgccga ctcggccgac ctactccctc 300

tgctgcccgg cgccgccgct tcaccgtgac ccgaccatgc ccagcaacat ctcccagacc 360

ctcgacctcg tgctctcccc caacgcctgc tacgccttca cttgcgccgn ctttcccgac 420

ccccc 425

<210> 40172
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C8

<400> 40172

cgttttagat ctctcaaaag aggcttttgc attttgtatt gcatcgttta tattccagcc 60

ttggaaggct gaagatggaa ggagacattc ttgcagttca aatttggagg acactgaggc 120

taattgttgc aggccttgat tgtacaacta gctgtctgct tcaggtcaat agcgacctta 180

aacttgtcga cccacctaca gtgtctactg cgacttttt taccggcaat aaccttccct 240

tgttatctaa ttggactaac aatatatctt cttctgacta ataaacgtct gatatattac 300

tctgaatcgt taaacctttt ctttttaaat 330

<210> 40173
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B12

<400> 40173

gaaggtcagg aaaattcatg atggctgctc aagcgctgtg aataggctcc atactgtcct 60

tgagtgaaca gagcagcagc tcggatcaaa cagaagacaa gctaactatc tagcacaagt 120

ggctgcaaaa tctctaccca agggtctcca ttgccttaca ctgcggctta caaatgagta 180

ctatttcact aactcaaaga ataaagactt tccctacgtg gagaagctgg aagaccccaa 240

actctatcat tatgcc 256

<210> 40174

<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B2

<400> 40174

atgaaatcca ttattgtatg ttatttggag tttcgttttt gtcacatgca tgtaatgaac 60

aacggtggca atcatctata aaggttccat tattcgctcg cgaaaaaaaa aaaaaaaaca 120

aaaaaaaaaa aaaaaacaaa aaaaaaaata aacaaccaaa aaaaaaaaaa gacaaaaaac 180

gcgcatacac aagaaaaaaa tatagaacag cgtcaaatca taaacaacga gacactatat 240

ggagcataac attaaaaatt a 261

<210> 40175
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B3

<400> 40175

caacaaccgg ctgacggagg ccaaggccaa cttcccgccg tacgggcagg acttccccgg 60

cggcgtcgcc acggggaggt tctccaacgg cttggtcccc ggggacctcc tagcttccaa 120

gctgggcatc aaggagctgc tgccgccgtt catcggcacc gacctgcagc tcgaggacct 180

gctcaccggc gtggccttcg cctgcggcgg cagtggctac gatccgctca cgtccaagct 240

cgcggtaact ttacacgtcg tcctccggaa gctagctagc tagctagctg cattaacaca 300

ctcacgtact cctacgtact gactactgaa gatgttatct gagactgaga acaataaaac 360

ccgtactact actactacgt acg 383

<210> 40176
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B4

<400> 40176

gaacccgagc ccctctccgc ctccctcccc gtcgcacagc ctccacagcc cgaaaccctc 60

gccgccgatc ggtttcggag aagagaagca aatcaagatg tttctcggct cgctcccgcg 120

gcgcccgagc aaggaggctg cgtacaagca gctgcggtcg cacatcatca tcatggcctc 180

ctgcgccgtc gtcatccgcg ccacccctta catcctccat ttcctcgccc gcgacggcga 240

catccaggaa ctcaagctcg atctgtaggc ccgtccgttg cttccccacc ttcagaggtg 300

ctacaaaggc aaccgttagt tcgaggccac tgcaaggtac tatggagtta gtggctacag 360

tgcctgctta agtttctttg gtgttccaag tttagtgaca aaactgacaa tggtgtagca 420

actgggttgt gctgcgacca gtattt 446

<210> 40177
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B5

<400> 40177

cggacgcgtg ggggaggcga gagttcgtgc gtgcagccac aggcaggcgt cggcgccatg 60

tgttctttca ccggcacgca ggacaagtgc gcggagtgcg acaagaccgt ccacttcatc 120

gacctcctca cggccgacgg cgtcacctac cataagacat gcttcaagtg cagccactgc 180

aaagggatcc tctcgatgtg cagctactct tccatggacg gtgtgctgta ctgcaagacc 240

cacttcgagc agctcttcaa ggagaccggg agcttctcca agaacttcac gccaggtggc 300

aagtcttcag acaagggtga actgacaagg gccctcagca agctatcatc tgcgttttct 360

ggtactcatg ataagtgtgc tgcttgccag aaaacagggt acccgctgga gaagttaact 420

ctg 423

<210> 40178
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B6

<400> 40178

gccccgagaa gtacgagaac gaggagcgcc tcgaggacca caaggcgcag tgcagcttcc 60

gccccgtcgc ctgcgccaac gacggctgcc gcgccaaggt ctccgtccgc tgcgtcaagg 120

accacgacgc cgcctgcgtg tacaagctgc tccagtgcga gcagggctgc gacaagcgcc 180

tgctcaggcg cgacatggac cgccactgcg tcaccgtctg ccccatgagg cccatgaagt 240

gcccccttcgg ctgcgattcc tccttccctg accgtgacct cgagaggcac tgcgccgagt 300

tccttcagcc gcatctgctc atggtcctta aggccatcca taagaaaggc cggtcggaac 360

aagacctcaa ggaccttgct caaaagctgg aaaagtttga tggagatggt aaactggcta 420

aggctctgga tgcaagacc 439

<210> 40179
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-047-Q1-K1-B7

<400> 40179

gcagtatgat ggttcaaatc tagagcatca taaagcactg gtggcccttt ggcatgcttc 60

ttttcctgga actgaacttc taggattagt atcagaccag tggaaggaga tgggatggca 120

agggaaagat ccatctacag atttcagggg tggtggtttt atatctttgg agaatttact 180

gtatttctct aagaaatatc caaaatcctt ccatgagctc cttcgtaagc agaatggtga 240

tagagcattg tgggaatacc cctttgctgt agctggtgta aatattacat tcatgctaat 300

tcagatgctt gatcttcaag cagctaagcc aacgtcattg gttggagcag ttttcctaaa 360

tctactctta gaaaatgatc gagcgtttga cattctntac tgcataacct tcaaactgat 420

ggatcagaaa tggctt 436

<210> 40180
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B8

<400> 40180

acgatctctg cccctccttc cccaaaatca tctctctccc gatcttggcc tccccagatt 60

caccacctgc tctcctctcc ggctacgacc ttggctcatc ctgattcgga cacgcaacat 120

ggtttaccac tctagtttcg ctgatgatga tgggatcaca aaagcttgca gctgtccttt 180

gcttccactg aaaactcata tcaagggccc ggcaccagcc tctgaccctg ataaagcgga 240

cattgttgat gaagccataa ctttctttcg agccaatgtt ttcttcaaaa atttccatgt 300

gaaaagctca gcagacaagt tattgatcta tctgacgttt tatatcaata ttgccttaaa 360

aagactagac ggttgccgga cactagctgt tgggactaaa gcaatcatta atctgggatt 420

ggagaaagtt cctgtacc 438

<210> 40181
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C10

<400> 40181

ctcgtccctc tccctctcct ctctcctctc cctacccagt tgcgcgagcc ggcgagccct 60

agcaggcaaa agccatggcg tccatggttc ttcgtgccgc tgccgccgct cgtcttccct 120

ccctccgtcc tcgccgcaac ggcagcgggg tgctcaccgg cttgaggatc gggacagggc 180

actacggcgt gcggctcgcg ctttcttcgt ccgcggcagc ttctcccaaa gagttcgagg 240

tcgcttgcct tcctgtcgat gatagcagat tgtgcccggg 280

<210> 40182
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C12

<400> 40182

caccgccaag aagtctcaag tgttcgctgt tgccttcgct gtattagctg ctggtgctat 60

agttctgaca ctcaatgttc tactgctggg tgggaacata atcttcttcc aaagcctcag 120

tcttctcgga tactgtctgt tcccgctgga cgtgggggct ctgatttgca tgcttaagga 180

cagtgtcata ctaaagatgg ttgtggtgac ggtaacattg gcatggagct cttgggcagc 240

ataccccctc atgagtgctg ctgttaaccc aaagagaaag gccctggcgc tgtatcccgt 300

gttcctcatg tatatctcag ttgcctgtct cataattgct ataaattaaa ggcggcatgg 360

tttctacaga actatcaaaa gaattaccag attttggttt ctaaggggat catcaaaatg 420

catattcctt tttttt 436

<210> 40183
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-047-Q1-K1-C2

<400> 40183

gccctgctca tactgcttgc cctcgccgta tcgtccaccc gcaacgcaca ggaggattcc 60

atggccaaca acaccgggac gttggtgggc ggcatccagg acgtgccggg gagcgagaac 120

gaccttcacc tccaggagct cgcccgcttc gccgtcgatg agcacaacaa gaaggccaat 180

gctcttctgg ggttcgagaa gcttgtgaag gccaagacac aagtggttgc tggcacgatg 240

tactatctca ctattgaagt gaaggatggc gaagtcaaga agctctacga agctaaggtc 300

tgggagaagc catgggagaa cctcaagggg ctgcaggaat tcaagcctgt tgaagagggt 360

gctagcgcct aaggatggct ncttctccat gtgcgagcct gaagctcaaa gca 413

<210> 40184
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C4

<400> 40184

cggacgcgtg ggatttgcaa aatccccacc gtcacagttc aaatgggggt gcccaaatca 60

ggggtgggga tctcgtagtc aaggcttgcg gtgaacgacg agtacaacgc aaaatttcat 120

gaactataac cgcggcacat ctttccgttc attgtgttca cgatcgatga cactgccatg 180

gagaaca 187

<210> 40185
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C5

<400> 40185

gggccaccgt cataccctac actttcgcgc catgcgtagc ggtgtgccgt gacccgaggt 60

ggggtcggtg ctactagagc ttcatctagg acactaggct ggtgcatctc atgacctcca 120

acatggtggc cggcctgcag ggcgacgtcc cagcgatgca cctgaagggc gtacccttcg 180

tcggcgtggc caagaaggtg gcctgttgcg ccaagcactt tgtcggcgtc tgctgtacca 240

ccatgggcat caacgagagc tacacggtgc tgagcttgca cgacctcatg cagattcaca 300

tgctgcccta cgacaactcc gtcattaacg gtttatcctc cgggatgatc tactacttca 360

gcttgaacgg ggttaagatg cacgag 386

<210> 40186
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C6

<400> 40186

gaagtatcaa gatttcttct gtccaatgct agatcgtggc tcgaggaata taccctagat 60

ggtttccgtt ttgatggtgt gacctccatg atgtacactc accacggatt acaagttaca 120

tttacgggga acttcaatga gtattttgcc tttgccaccg atgtagatgc agtggtttac 180

ttgatgctgg taaatgatct aactcatgga ctttatcctg aggctgtaac cattggtgaa 240

catgttcgtg gaatgcctac atttgccctt cctgttcacg atggtcaagc aggttatgac 300

tatcggatgc atatggctgt ggctgacata tggatcgacc ttatcaagca cagtgatgaa 360

acttggaaga tgggtgatat tgtgcacaca ctgacaaata ggacgtgctt agagacgtgt 420

gtaacttatg ctgaaag 437

<210> 40187
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B11

<400> 40187

atcgatcaca acaagatggc atgtatagac aatgcaatga gagccttgtt ccttctagcg 60

ctcttctgca ccgtgcatgg tgagaaggca aagtcaaagg acaacgattc aaaagcgtcc 120

gggcccggtg ggtccttcga catcaccaag ttgggcgcct ctggcaatgg caagacggat 180

agcacgaagg ctgtgcagga ggcgtgggca tcggcgtgcg gcggcaccgg gaagcagacg 240

atcctcatcc ccaagggcga cttcctcgtc ggaccactca acttcacagg cccatgcaag 300

ggcgacgtga ccatccaggt gaatggcaat ctgctggcga ccacggacct aagccagtac 360

aaggatcatg gtaattggat cgagattcta cgcgtggaca accttgtcat caccggcaag 420

ggaaagctcg acgggcaggg gccagccgtg t 451

<210> 40188
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-H5

<400> 40188

acctgaccaa ggccaagagc gaggggtacc tgtgggggaa caggactgca gctgtggacg 60

tgggacaaga agcagcagct tcttgccgtc attggagttt acactgggtt tggctcccgt 120

ctcaagagga acgtcttccg tggctcctgg atgccaagag gtgatgctct gaagaagctt 180

gaggaaaagg gtgtagctat tcgttttgtt attggtcgga gtgcaaatcg aggtgatagc 240

ttggaccgta atattgatga tgaaaatcgg cagacaaagg acttcttgat tcttgaaagt 300

catgaagagg ctgcagaaga attaccgagc aaagcacaca tcttcttcag tgctgcagtt 360

gaagcctggg atg 373

<210> 40189
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-046-Q1-K1-H6

<400> 40189

agtttttgaa cggagaagtt ggacccaaga ccattcatgt tcctactggg gagaagctgt 60

gtgtttttga tgcggccatg agatacaaat ctgagggcca tgctactata atcctcgctg 120

gtgctgagta tggaagcggc agttctcgtg attgggctgc taagggtccg atgctcctgg 180

gagttaaagc tgtaattgcc aagagctttg agcgtatcca cagaagcaac ttggtgggga 240

tgggaatcat tcctctgtgc ttcaaagctg gtgaggatgc tgattcgctt ggcctcactg 300

gacatgagcg gtacagcatc gatctcccta ccaacctcag tgagatccgt cccggccagg 360

atgtgactgt tactaccgac aatgggaaat ctttcacttg catcgntcgc tttgacactg 420

<210> 40190
<211> 480
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-046-Q1-K1-H8

<400> 40190

gcgaaggcga ccctccctcc ttcgctcctt tcgcgccgcc tcccggccgt cgccgccatg 60

gggaagtact cgcaggagcc gggcaaccct accaagtcgg ctaaggccat gggcagggat 120

ctgagggtcc acttcaagaa cacaagggag acagcctttg cgcttcgcaa gttgtctttg 180

accaaggcta agcgatacct tgaggatgtt attgctcaca agcaggcaat tcccttccgg 240

agatactgtg ggggcgttgg tcgcaccgcg caagctaagt cgcgccactc caatgggcag 300

ggccgctggc ccgttaaatc agccaggttc atcctggatt tgctgaagaa tgctgagagt 360

aacgctgatg tgaaaggctn ggatgtggac aacctctatg tttcacacat ccaggtgaat 420

caagcccaga agcagatgcg ccgtacctac cgtgctcacg ggcgcatcaa tccctacatg 480

<210> 40191
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A10

<400> 40191

aaaaaaccag cagctagcga tggctggagc ccgggcactg ctcatcgtcc tcgcggctgc 60

cgtcgcggtc ctggccgcgc ggccggcgtc tgcatgcggg ggagccgcgg cggtggcgga 120

gatctgcatg aaagactccg tccccgacct gtgcaccagg acggcgggga agcaccccaa 180

caaagtacaa ggtggtggac gcggtgacgg tgctagagat gcaggt 226

<210> 40192
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A11

<400> 40192

cagggcgcac gaggagaacg gcggcgtctg agatcgcgag gccgaggctt gtcccgtccc 60

cgctcggctc cgctcctctc acccacggtt tctggaggac aattctttgc tatctagcct 120

tcctcaaaag taaaaagggt aaatgggatc agaaggacct tcagttgtca ctgtccatgt 180

tactggattt aagaagttcc atggggttgc tgagaaccca actgagaaaa ttgtgaccaa 240

tcttaaatct ttcttggaaa agcgagggtt gccaaaaaat cttgtcctcg gaagctgcac 300

agttctcgaa acagcagggg aaggggcact tgccacatta tataaggttt tagagtctgc 360

tgttgcagac agaggaactg ggtcctcggc acagggacaa gtaacttgga tccactttgg 420

ggtcaacagt ggcgcaataa ggt 443

<210> 40193
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A12

<400> 40193

agttaacctt gacaatcgcc aaattactga tgttggcctg gcagcactta taagtctcac 60

taggctgact catcttgacc tttttggagc ttgcataact gacaatggca caaattgctt 120

cagatatttt aagaatcttg tttctcttga agtctgtggt gggttcgtta ctgatgctgg 180

agtgaagaac atcaaggatc tgaaggccct gacgttgctg aatctttctc aaaatgctaa 240

tctgacagac aaaaccttgg agctgatctc tggcctgact gctttgatca acttgaacgt 300

g 301

<210> 40194
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A2

<400> 40194

aaaagatgtt ccgtttgaaa gaattgataa gagcttcagg gggaaggatg gagttactaa 60

atgatacaga cagaaaatgt tgttaacgaa aactatgaaa gtagttcgtc aggcgtgtat 120

gtcaaaagca gggtacgata aggcgatgga tgtgttggat gagctcgatg tcgttctaag 180

ccgattggag ccagatattg gatgtaatga gtcaacagat gttagtgata atgaggaaga 240

caaggaagaa gagttgaata aaattaatgc tagcgatggg atggaagatg acaatacaat 300

tacatgtcat aataaggatt cgcataacac caggactgga tgtgaacatg cattaacaat 360

aataacaact ggtaaccaag aagacaacat gggattttca ca 402

<210> 40195
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A3

<400> 40195

cggacgcgtg ggcggacgcg tgggttcgac gtgcacgacc aagagggaag ccagcctgga 60

ggtgtccacc ttgagatgac cggtcagaac gtgaccgaat gcacgggcgg gtcaagcaac 120

gtcaccttcg acaacctgag agaccgctac cacacgcatg gcgaccccag gctgaacgcg 180

tccaagtccc tgaagctcgc cttcatcctc gccgagaagc tgaggaaccg aaggatccgc 240

cggtcgtcgt t 251

<210> 40196
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A4

<400> 40196

agctcatcca acccagtcgc ctgattgcat tgggatccca tggccaagct cgccgtcctc 60

cgcctcctcg ccgtggccgc gtccgccaca gtgccggcgc acggccgcga taccccgact 120

gagatcaagc tcatcaaagg cacggacgcc ttcggcgtgg gcgacgacag catggagtgc 180

gtgtacacgg tgttcatccg gacggggtcg atcttgaagg ccgggacgga cgcgaacgtc 240

acgctggagc tggccgccgc ggacggcaac ggcgtgggga tctcgaacct gcccgcctgg 300

ggcgggctca tggggcaagg ctactcctac ttcgagcgca gcaacctgga catcttcagc 360

ggccgcgggc cctgcatgga gaaggcgcca tgctggatgc ggctggccac cgacggcacc 420

ggcgaccacc acgggtggta c 441

<210> 40197
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A5

<400> 40197

ggtcgacgac gcgtgcgccg acgcgtgtgc cgacgcgtag gttcgacttt cactttcaag 60

acggaagcca gcctggacgt gttcaccttg atatgaccgg tcagaacgtg accgaatgca 120

ccggcgggtc aagcaacgtc accttcgaca acctgagaga ccgctaccac acgcattgcg 180

accccaggct gaacacgtac cactccctgg agctctcctt gatcctctcc tagaagctga 240

agaagcggat gatgcggcgg tcgtacttgg cgcctgtgct cggcggcagc atcttgtcct 300

tgacgaactt tgggtcttga tgtcttgcac gctatctgtg tgcatgcaca gtgcactgca 360

tgagtgtggt atgagaatct tacgttgctc attgccttgc tatgtaatat gtaatgcttt 420

aatttact 428

<210> 40198
<211> 138
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A6

<400> 40198

gtgttctctt actccatgta aactactcta gacagtgctc ggtgagtaca gctgctcggt 60

gagtacggtg tcacagtcac tccgtgtagg cagtgccatt tcgaagacaa tattgcaaaa 120

tttaactaac ttggtttt 138

<210> 40199

<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A7

<400> 40199

atcaaattca ccatctgtga aggagaagat ggcactgaat catcaaatgg agatgtgttg 60

atctttccag atatgatcag atacaaaggg ctgacccatt ttgacgtcga caactttgtt 120

gaagaagtgt ttgtgaagga tattgactgg cttcctggat ctcctgagcc tataagcggt 180

tcctatgttt tcgtttgctc ccatcaaaga agggatataa ggtgtggtat tcgtggacct 240

gctttgatta aaaggttcaa ggaagagata aatggactgg gacttgatgg tcaggtggct 300

gtcagtgcat gctcacacgt gggaggtcat aagtatgcag gaaatgtcat cattttcagt 360

tctgatgcca agggagaagt gatgggtcat tggtatggtt atgttgtccc cgacgatgtg 420

cctgttttgc tgcataaaca ta 442

<210> 40200
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A8

<400> 40200

ctctctcgcg cgcgcattac ttgcacgtac gagctcagaa ggaaggcaga ggcaaaagca 60

gccatggcga actcgtcgtc cggccttgcg gtgaacgacg agtgcaaggt gaagttccgg 120

gagctgaagt cgcggcggag cttccggttc atcgtgttca ggatcgacga cacggacatg 180

gagatcaagg tggaccgcct cggcggaccg aaccagggct acggcgactt caccgacagc 240

ctccccgcca acgagtgccg ctacgcgatc tacgacctcg acttcaccac catcgagaac 300

tgccagaaga gcaagatctt cttcttctcc tggtcccctg acactgcacg caccaggagc 360

aagatgctgt acgccagctc caaggacagg ttcaggaggg agctggacgg catccagtgc 420

gagatccagg ccaccga 437

<210> 40201
<211> 449
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A9

<400> 40201

gccattcaag atgttgtttc cttgctccgg tgcacaaggc agagcctagg agtcatggca 60

tcaagcagag gggcactcat tgggcgcctt gtgttgcatg aaccggacgg ggagcagatt 120

gactgctcca ttcttggagc ttcaggacat gcaattacgg gggacctgaa cctgttgagc 180

aaattaaatt tgtcttcggg ctctcggtac atcattgtgg tggagaagga tgccgtattt 240

cagaggctgg ctgaagaccg cctgtataat cagctccctt gtattctgat cactgcaaaa 300

ggatatcctg atattgccac aaggttcatc ttgcatcgac tgagccagac atttccgaat 360

atgccgattt tcgcattagt ggattggaac ccagcagggc ttgctatact gtgcacttac 420

aaatacggaa gcatatcaat gggcctaga 449

<210> 40202
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B1

<400> 40202

cttggtggtg gcatgtcctt gaagggcata ccaaacaatg ttgaagttgg ttttcttacc 60

gtcctggaat cactaaatct ctgcaaggtt ggtcagtact tgaagtgccc aaagtggccg 120

atatgggttg tgggaagtga aagtcactac acagtccttt tttgccttga accccaacgt 180

tcaagaggag aatgagctgg aagagcgcga atcaaaaata aggagggctt ttgatgccca 240

agatcaaagt ggaggtggag gctttatcag cgttgagggc ttccaacaag tcctcaggga 300

tactgacata aattttcctt cggataaact cgaggaccta tgtaatgctg ggattatagt 360

atggagtgaa ttctggcagg c 381

<210> 40203
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B10

<400> 40203

caaccggttc atggactcgc gcactatttt ctctctgcat tgtgccaaga aggtgtcaga 60

atggtgggga agccgcagca gatctacgag gatgccgaac atctcatgcg cccgacctta 120

tcaaatctct tggcttcgaa gacggtaatg caggaagatt tgtgtgagac gaggtcgtct 180

ccgtgctcga gggccaacaa agcgagcgcc tcggcggcag ccttcctggc ggcccaatcg 240

tcggccgtga gcgcgtcgcg gaggcaaggc acggcggcgg aggcggcttc accgccggat 300

gctgccgagg cagcgccgat gatggaaatg agcgcgggct tggccttgaa cgccgcgctg 360

cggatgacct tgtataggct ccggaagagc ccccg 395

<210> 40204
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-046-Q1-K1-H4

<400> 40204

agataccaaa gggtagagaa gcctcggaat gacacgccaa tcagccagaa tgagatcaga 60

atcactactc aggggaggat gaggaactat atcagctatg ggatgtcgct gcttgaggaa 120

aatggacatg atgagattag tatcaaggcc atgggacggg ccataaataa gacagttatg 180

gttgttgaat tgatcaagag aagggttgga ggtcttcatc agaacactgc tactgaatct 240

gttgatatca cagacacatg ggaacctttg gaagaaggcc ttctcccact agagacaact 300

cgccatgtgt cgatgatcac tgtgacactg tcaaagaacc ctctggatac atcatctnca 360

ggataccagc cacctatccc agctgaagag gtgaaacctg cttttgacta tgatcatg 418

<210> 40205
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F7

<400> 40205

ctcgacgggc aggggccagc cgtgtggagc aagaactcct gcgtcaagaa gtacgactgc 60

gggatccttc ccaactcgct ggtgatggac ttcgtgaaca acggggaggt gtccgggatc 120

acgctgctca actccaagtt cttccacatg aacatgtaca agtgcaagga catgctgatc 180

aaggacgtca atgtgacggc gcccggggac agccccaaca cggacggcat ccacatgggc 240

gactcgttcg gcgtcaccat caccaacacc gtcatcggcg tcggcgacga ctgcatc 297

<210> 40206
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F9

<400> 40206

ctcaggtttg gggggaaaag gcctcgcggg tcgcaaaccg ctctctgttg atttgggatt 60

tgggaggcgc tcgagttttc aggtaaacca tagtttagtg accaatggct cgtactaagc 120

aaactgctcg caagtccact ggagggaagg ctcctaggaa gcaacttgcc accaaggctg 180

ctcgtaagtc tgcacccaca actgggggag taaagaagcc tcatcgttac cgccctggaa 240

ctgttgctct tcgtgaaatc cgcaagtatc agaagagcac tgacctgctc ataaggaagc 300

ttccgttcca aaggcttgtc agggagattg cccaggattt caagactgat cttcg 355

<210> 40207
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G1

<400> 40207

cttctttcat tttcacgtgg tatgctatct tccgatcgcg aggcgtgttt gcaatataat 60

cgtcgttagc ctcggagagg aggattggag aggcaaccaa ccatccacga cgggatcgca 120

ggagctgatg ccccggtcgc ggaaagcaac ggcgacgaga tttcgtgcac gcgagacgcg 180

gcagagaacc gacgaggagg acgcgagccg cgtgacggat gatccgcggt cgccactcgc 240

tcctcgggcg ggaaggcatc ggt 263

<210> 40208
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G10

<400> 40208

taattaccgg accgacccat gcgttcaaac aatacttgca cccattatct ccattacttc 60

accacatctc tctcacccta acgaaggtcg cccgccccac ataccacgct cctctcctac 120

atccttataa gatttaccat caccacgggc caggcaccgg cacatctacc aattgctctc 180

acagctgcta tatcacccgc cgtggccacc gaatgcgcta tcccttaccg tgacccacac 240

ccagtgcatc ctcgagttct taccctatga gagcgacacc ctgttcagga acttctttct 300

<210> 40209
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G2

<400> 40209

gcttccacga ccagctcctc aaagtgcagg acatcatacc catctgcgcc tccatcatcg 60

ggcagcgcct ggcgctctac tcgctggagg ccggccccga gtggatcaaa gaaagggtga 120

gagacctggt gaaaaaccgc gcgctgctcg tggacgcgct gtccccgctc ggtgacgaca 180

acgtcagggg cgggcagggc gccatctacc tctgggcgaa gctgccggac acctgccccg 240

acgatttcga ggtcgtcagg tggctcgcga acaggcacgg cgtcgccgag atccctggca 300

gcgccagcgg aggccccggg cacattcgcg tctccttcgg agggctcaag gaggaagaca 360

cc 362

<210> 40210
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G3

<400> 40210

cggacgcgtg ggcaagccta tgggttggag ccacttcact gccgaaggag atgttgagtt 60

caaagctttg ctctttattc ccccgaaggc tccacatgat ctctatgaga gttactacaa 120

cagtaacaag tcaaacctca agttgtatgt taggagagtt ttcatctctg acgaatttga 180

tgatcttctt cccaagtacc tgagcttttt gaagggtatt gttgactcag acacgctgcc 240

cctgaacgtg tcacgagaaa tgcttcaaca acatagcagt ctcaagacca atcaagaaga 300

agctgatccc gaaaacccct tgacatgat 329

<210> 40211
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-046-Q1-K1-G4

<400> 40211

ggcgacggcg acggcgtcga cgagagtaca agcgtctccg gcgggcggaa acacgtgtcg 60

gtcggcgacc tgagcctcgc ggagtggacg tcgttcctgg agaggttcga gcagctgctg 120

ccggcggcgc tcgaggacaa gaagtgcgct gtgctaggga cgtcgacgtc gtcgtcgttc 180

tgaccgtgct acgtactggt caatcactac cgtcaccatt tgcatgcata catgcgtgag 240

tgcgtgcgtg cgtggatgca aaataataca cgtgtgcatg gcgctgtgct agggacctac 300

tagctccgtc tggatgcctt ttgtgtgtct actacgtatg gtcgtcgacc ttgtacggtg 360

gcattggcat gcatgctgtt gggatgggat catgggagtt gggagctgct gtggaacacc 420

ctttncaaag aagctgacgt gtgggggcaa t 451

<210> 40212
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G7

<400> 40212

gattctacgt gtggataacc tggtcatcac cggcaaggga aacgctggac gggcagggcc 60

cagccgtgtg gagcaagaac tcctgcacca agaagtacga ctgcaagatc cttcccaact 120

cgctggtgat ggacttcgtg aacaacgggg aggcgtccgg ggtcacgctg ctcaactcca 180

agttcttcca catgaacatg taccggtgca aggacatgct gatcaaggac gtgaccgtga 240

cggcgcccgg cgacagcccc aacacggatg gcatccacat gggcgactca tccgggatca 300

cgatcaccaa caccgtcatt ggcgtcggtg acgact 336

<210> 40213
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G8

<400> 40213

gggctgcatc cccaactacc tggccgtgct tttgaagtat gtggcggacg acggcgacat 60

cgtgctgatg gaaatccagg acaagttgtc ggctgagtgg aagcccatga agctctcttg 120

gggcgccatc tggaggatgg acactgccaa ggcgctcaag ggccccttct ccatccgcct 180

caccagcgag tccgtcatga aggtcatcgc caaagacgtc atcccggcga actggagacc 240

cgatgccgtc tacacttcca acgtccaatt ctactagact ttgaattccc ttcgattcat 300

acggcacagc gggctatgga ccttcagcag caagctaatt aagttggcag catgcaccgc 360

taaccttata tactactgag acttccaaat tctagtatat gtaatccttt tgttcgggtt 420

catgatcgaa ttccatagag tggaaaacaa g 451

<210> 40214
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G9

<400> 40214

ggcaagatga caaatatttt gataatgtat tttatcagcg agatcattct gataatgggg 60

agcagaaatt aactaaagac acatgcatag ctacatgcca tacaggaatt catgtatcat 120

tgtacatgtt gcctgagtat atcaccatgc taattgtaga agccattaca catcttttct 180

aatcaataat gcatcttcta aaaccaactt ctataactac attgcaggat cct 233

<210> 40215
<211> 362
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-046-Q1-K1-H1

<400> 40215

tttctatggc aaaaaaatgc gagtacaata tgcaaaaaca aaatcagact gtattgcaaa 60

agaagatggt acttatgcac ctaaggagaa aaggaagaag caagaggaga aagctgctga 120

gaaaaaacga cgaacagaag aggcacaaca agctggcctc aatgctgctg ctgcccaaag 180

caatggaact ggctatcaag cgtctcgtct gggcaaggcc tcacaggagc cacctgcgcc 240

ttcgaacaac atcctcttca tccagaatct gccagaccag accacgagca tgatgctcca 300

gatcctgttc cagcagtacc ctggctcncg ggaagtacgg atgatcgaag cttaaccagg 360

ca 362

<210> 40216
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-H12

<400> 40216

atttcgagta acacagttga gcacgacgat gggatccctc gctaataaca tcatggtcgt 60

gggcgccgtc cttgcggcgc ttgtcgtcgg cgggtcgtgc gggcccccga aggtgccgcc 120

cggccccaac atcaccacca actacaacgg caagtggctc accgccaggg ccacctggta 180

cggtcagccc aacggtgccg gcgctcctga caacggcggt gcgtgcggga tcaagaacgt 240

gaacctgcca ccctacagcg gcatgacggc gtgcggcaac gtccccatct tcaaagacgg 300

caagggcttg ggctcatgct acgaagtgag atgcaaggaa aa 342

<210> 40217
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-H2

<400> 40217

atttgaaata attgggaata aatagttcgt gaatccctga agcgtgcata tatatattcc 60

tgccaagata aaggtaatgg agtcgtcacg caggttccag ccggccgtca tcctgcttct 120

cctgctcatt gtgtccaccg atatggcaca ggcaagggaa tgcgagaagt acagtgagcg 180

atttgttggg gcatgcatga tcgcagacaa ctgcgccaat gtgtgccgcg gtgagggctt 240

cttggccggc aggtgcagca ccttccgccg tcgctgcatc tgcactaggc agtgctaaac 300

aagatcgctc gatcgctcgc catgcatcga caacctattc ttaataacgt tcattatctc 360

cgtcttattt atgacgaatg tcatgtatgt tctggtgact gtcatgtata ttctgatgac 420

tgtcatgtat ctcggtcatg tatgctc 447

<210> 40218
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-H3

<400> 40218

ctcgagatgg acaccgtcag cgtccccgtg gtggccgttg cgaatgggat cggggaggtg 60

gagcgcaagg tgcagaagag ctactgggag gagcactcca agtgcctcac tgtcgagtcc 120

atgatgctcg actcccgtgc cgtcgacctc gacaaggaag agcgacccga gatcctgtct 180

ttgcttccct cttacaaagg gaaatcagtt ctagaacttg gtgctggaat aggacgcttt 240

actggagatc tggcaaaaga agctgggcac gttctggctc tagac 285

<210> 40219
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E10

<400> 40219

cccacgcgtc cggtgcaagt atggatctaa ggtcaccttc catttggaga agggatgcaa 60

ccgcaactac ctggccctgt tggtcaagta cgttgatgga gatggtgaca ttgtggcggt 120

ggacatcaag gagaagggct ctgacaccta cgagcctctg aagcactctt ggggcgccat 180

ctggaggaag gatagcgaca agccgatcaa gggacccatc accgtccgac tcaccaccga 240

gggaggcact aagactgtct acgacgacgt catccccgcc gaatggaagc ccaacactgc 300

ctacaccact tgatagacct tttttatttt tttattcaat aaaaggatat aaggtgtgtg 360

acaacaacac aaatattgga ttatctatgg atctcctatg ccatcccaat tttatcatgg 420

acacatttt 429

<210> 40220
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E11

<400> 40220

agacactaaa gtggggtctc caaaggttga aagacttccc tagaccattt tggctagctc 60

tgtttgttga gggtactcgc tttactccag caaagcttct cgcagctcag gagtatgcgg 120

cttcccaggg cttaccagct cctagaaatg tacttattcc acgtaccaag ggatttgtat 180

ctgccgtaag tattatgcga gattttgttc cagccattta cgatacaact gtaatagttc 240

ctaaagattc ccctcaacca acaatgctgc ggattttgaa agggcaatca tcagtgatac 300

atgtccgcat gaaacgtcat gcaatgagtg agatgccaaa atcagatgat ggacgttcaa 360

aatggggtaa agacctttt g 381

<210> 40221
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E12

<400> 40221

cagctcctcg ttttttctct ctcctctctt cgtccccgcg tggagaagga gagagagaaa 60

cgggggagcg ccccccactc ctcttcgctg ccaagaaacc accattccta acggatttct 120

acccagtctt ctttaggatt tccgattcgg ttctccggtg agagggtggg aattttattt 180

tcctccgctg caaccggtgc aaacatttcg aattccttca ttccattcct tttcgtgcaa 240

tcgaacattc atatgtttct tggctggatt gaggcatccg tacccgaatt ttgatgtgag 300

ctg 303

<210> 40222
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E2

<400> 40222

atcgatcacg acaagatggc gtgcacagac aatgcgatga gagccttgtt cctcctggtc 60

ctcttctgca tcgtgcatgg tgagaaggaa gagtcaaagg gcatcgatgc gaaagcgtcc 120

ggtcctggtg ggttcttcga catcaccaag ttgggcgcct tcggcaatgg caagacagac 180

agcacgaagg ctgtgcagga ggcatgggca tcggcgtgcg gcggcactgg gaagcagaca 240

atcctcatac ccaagggcga cttccttgtc ggacaactca aacttacagg ccctttgaag 300

ggcgacgtg 309

<210> 40223
<211> 182
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E3

<400> 40223

gtatatccct gctgccatgc atcacaatcg gtacaactca tgtgttatct gtgtgtgcct 60

agccgatggc cgatgttcat gttcgtataa agtgaacgaa acactacccg tgtcacggga 120

cctgctgatg aacaagaagg ttacgctgtt cacacactgg tcagtctatg aggctacctt 180

gt 182

<210> 40224
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E4

<400> 40224

cagagggttg gtgtcaggtg gcgtcgccgg ccggccgtcg tggaacaggg aaccgcgtgt 60

ggaggacgag gattccctct gtagcactgc actgcactgc actgcaagtt gttgtacaca 120

agtgcatgtg tatgtgtagt agtccggcct ccgggcggga ggcgccgacc ccatccgatg 180

gcgacggtgg cgtccttttc ggatgctgag ctcgccgacg ctgagcctga gcgtctacgc 240

cttcatgtga atgaaggaga gctgtggcca acgattagcc caccacacaa tggagaccgg 300

agaggtgacc aaccgtgtcc aatccgtgaa cggccggcac gggattgaag tgaacgggcg 360

ggcgggcgaa aaagc 375

<210> 40225
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E5

<400> 40225

gcgtcgccgc gccatgacga tgacgatagc cgccgtgctc tgcctgctcc tcttctctgg 60

ccgtctcgcc gcggcggaga agactttccg cggaggtgga ggcggaggct acggcgggtt 120

ggaggccggt ggcggaggcg gcggcggcta ttccaccccg agcgaggcgg cgccatccac 180

gcctgccgct ggggagacga ctacccccttc gtcaggcggc ggttactcca ctcctagcgt 240

ggcggcgcca tccacgcctg ccgctgagga gacgacgacg actccttcgt caggcggcgg 300

gggttacggc ggtgcaaccg gcaag 325

<210> 40226
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E9

<400> 40226

cggacgcgtg ggtacaaaaa taaggaccct gatcatgtgg agtgggcaaa agccctaaaa 60

gagctgtaca ttcccaattt acgtgactac gtgaagaggt attacccatt gggtcctgtg 120

tggcaaccgc caggaagcgc agccaacaag gcaccttcag ctccgtctgt tcctcctcca 180

tgtctttcca tctcttcagc ctcgtcgtcc caaccaaaat ctggaatgtc agctgtcttt 240

gctgaaatca gctctgggaa accagtgaca caaggcctca agaaggtaac tgatgacatg 300

aagagcaaaa atagaacaga 320

<210> 40227
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-046-Q1-K1-F1

<400> 40227

aaagccacaa cacatacagg aaaagcaagc atgaatcatc ggaataatgg ctcgtgcatg 60

tgtgttcctc gtcgtgctcc tcctggccgc catcgcggtg gcaccgttcg cgggcgccgc 120

acgcgtggac gtcgtggagg gtaggtccat ggcatccgcc gatgcaccgg aggcggcggc 180

cgatgctccc gctcctagcc ccgactccgc ctcatcccca gactcatcgt cagaggcgcc 240

cttcagcagc agctcctccg actagacgca aaaacctctt cattctctgg aataactaac 300

agtatatacg ttgcaccctg atgatataga aacatgtacg tgcatcagtg tatggaatgc 360

gagtggcaaa cacatggaat gtgcttgcct aantattgtt aaattcttaa ttaatatatg 420

tctttttcgg tggtttttaa ttttcc 446

<210> 40228
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F10

<400> 40228

cggacgcttg ggaactaaat ccactcatgt tctaggaaag agggacacag gagggatgga 60

gccccggtct ccacgcctcc acaaccatcc ttcccgatcc cgaccagctt tgaatatcct 120

atggcggacg gccgttgttg caccttcgtg gataccttt tccaaaatac ccccccccc 179

<210> 40229
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F11

<400> 40229

gggagtgaac atggaaacag ctcaattctt ctaacgtgat tttgaagaga atggttccgt 60

ggggcgggtc accctttttc tgaatctggc taacgacccc accattgaac gtattatcac 120

ccctcggatt gctctaacaa cagcggaata tttggcatat gaatgtggga agcatgtact 180

cgttatcttg acagatatga gctcttatgc agatgcactt cgtgaggttt ctgcagcccg 240

agaagaagcg ccatgtacgc gtggctatcc tggatatatg tatactgatt tgg 293

<210> 40230
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F12

<400> 40230

gatgtatttg tggttgctga acccggagat cttgcagaca gatttctgca atctgtcaga 60

agtagtttgt caaccttgtt gcgtgggcgt aatagaaagg gtgcatattc cttgtccaag 120

atttcatgtt tatctgagct ggttgctgag tgtccatctt ttgaaatcgg tgggatacac 180

caccgctata taggtcgaca aacacaagta ggaattgctt tttctggctc cttgtttcca 240

actaggtcat tattttgcat acttaattat ccttttttcg taggtaatgg aagataacca 300

agaaattggc gcatatatgt ttaggaggac agtgcctgct gttcacatgg cacctgaaga 360

tgttcgatgg atggtaggtc aatttgcgca gcatgaatgc attggtcttc ataattatgt 420

taaagccata actgatcaca 440

<210> 40231
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F2

<400> 40231

cggacgcgtg ggcagctggt aaatcaacaa aatgcaccag tttcagtttc taatacaggt 60

atagcaagag caagtttctg ctgcagcact cttaataaga atgcatcgtt gtctgatggt 120

gatagctcgc acaataggcg ctgggacaca attcggtctg gtcatattgt ttcctctcat 180

tcttcagata gcactatgct atcaagacca gccagtgcag tatcatccac tgatgtggca 240

tctctgcata gaaaggaaag gagacaagct tgtcctcctg gatttgagaa gcctcatctg 300

tactccggtt caggcaaagc ttgctctgga cattgctctg cacctgatgc cctggtacaa 360

gattgtggta ttccagatca acaagacctt actagcttga ctacagattg cctgaaagat 420

gatggagatg tcacacaaaa tctaagcatg aaca 454

<210> 40232
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F3

<400> 40232

aggtctcaaa ttaaatggcc tcctcgtcct cctccttgct gctggcgtcg atggcggtgg 60

cggcactctt tgtcgtcggc tcgtgtggcg gcgcgctcac cttcacgatc ggcaaggact 120

ccagctccac caaactatcc ctcgtcacta acgttgccat ctccgaggtg tcggtcaagg 180

agaagggcgc cctggactgg tcggatgatc tcaaggagtc gccagccaaa accttcaccc 240

tcgatagcaa ggagccgatt aagggcccca tctccgtccg cttcgctgtg aaaggtggtg 300

gctaccgcgt cgtcgatgac gtcatccctg ccgacttcaa gcctggctct gtttaccaga 360

caggcgaaca aatctgagta atggattctg ctgcgtgcag attatattga tctctaaaat 420

aaatgttgac agagactaat t 441

<210> 40233
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F4

<400> 40233

cacagccagt gagcccacag ccgtcgccgc ctccatcagt gaaatctcca cccgcacccg 60

ggccagctcc agcaccagca cctattagct cgcctgcccc acttatcaaa tctcctcctc 120

caccggttcc ggttagctca ccaccaccac tactaaaatc gcctccacct ccagtatcta 180

tgagtttacc acctccatct gtgaaatctc caccgccgtt gccaccaagg tcacctccag 240

cgccagtgaa atcaccacct gctgcaccac cagtaagttc gccgccacca ccagtaccgg 300

tgaggtcacc accaccgtca ccaccatcac cgattagttc accaccgcca tcgatgaaat 360

ctccaccccc accagcacct attagctcgc ctaccccacc taccaaattc cct 413

<210> 40234

<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E1

<400> 40234

actgcattgt ggatttttgg tgccgttgat cgagccacgc gtgcttgagg cttgagcagt 60

tgaacacgcg gggacgcagg cggcaggcta gcgcacaccc gcgccgtcgc gacgtgaccc 120

ggcgatgggg tgcgcaacct ccaccgaggc gcgccgcgac atggtgcgga ccggcgccgg 180

cgcccccccg cgccggagct tctcgctacc ctctgtcgac cgccagcggc tgcggctgaa 240

gaccgtgtcg atgctcggca acctcggcct cgccggcagc agcgcccgtc actccagctc 300

gtgcaggcac gcgacgctgt cggtggagga tttgatgaag agcgacaacg accatgccgc 360

ggacgcggtg ctcctcggcg acgacgcg 388

<210> 40235
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C3

<400> 40235

ccagcaacga gtcgctggag aatgccttcg cctcctacgg cgagatcctc gactccaagg 60

tcatcaccga ccgggagacg gggaggtctc gcggcttcgg cttcgttacc ttctcctccg 120

agaactccat gctcgacgct atcgagaaca tgaacggcaa ggagctcgac ggccgtaaca 180

tcaccgttaa ccaggcccag tcccgtggcg gtggcggtgg cggcggtggc tacggcggcg 240

gtcgcggcgg cggcggctat ggtggcgggc gccgtgacgg cggttatggc ggcggtggcg 300

gctacggcgg tcggcgcgag ggtggtggcg gcggctacgg aggcggtggc ggctacggcg 360

gtcggcgcga gggtggtggt ggcggcta 388

<210> 40236
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C4

<400> 40236

cccacgcgtc cgcacaaacg cgtcgcatcc gctccacagg atcctctgcg ccaccgcaac 60

cgtgtgaccg cccgtgccgc cggcgatccc gatccgtcga cccgtcccag ccccgctcgc 120

agccatgtcg ccgtcggagc cgacgcggga ggagagcgtg tacatggcca agcttgcgga 180

gcaggcggag cggtacgagg agatggtcga gttcatggag cgcgtcgcgc gctacgccgg 240

ggggcgccgc ggcggtgagg agctctcggt ggaggagcgc aacctgctgt ccgtcgccta 300

caagaacgtc atcggcgccc gcaggcctcg tggcgatcat cttctcat 348

<210> 40237
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C8

<400> 40237

cgtcgctgcc gccgtcggcg gtgttccaag tcggcgacga gcgcgggtgg acggtgccgg 60

ggaacggcac cgagacgtac aaccactggg ccaagaggaa ccggttccag gtcggcgacg 120

tcctggactt caagtacggc gccaacgact cggtgctgct ggtggcgcac gacgactaca 180

agcagtgcag cacggagacg ccgctgggcc ggttcaccgg cggcgacacc aagttcgcgc 240

tggaccgcta cggcctcgtc tacttcgtca gcggcgtcgc atgccactgc gaggcgggac 300

agcggatgat cgtgcgggtc a 321

<210> 40238
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C9

<400> 40238

tcccatttga aatcaaccca tcctcgtttc ctccgtctag cagcctctca ccctcatggc 60

cgggatcaag atcgggatca atgggttcgg caggatcgga aggctggtgg ccagggtggc 120

cctgcagagc gacgacgtct agctcgtcgc cgtgaacgac cccttcatca gcaccgatta 180

catgacctac atgttcaagt atgacactgt gcacggacag tggaagcacc atgaggtcaa 240

ggtgaaggac tccaagaccc ttctctttgg tgagaaggaa gttgctgtgt ttggctgcag 300

gaaccctgaa gagatcccat ggggttcccg tggcgctgaa tatgttgttg agtctactgg 360

tgttttcact gac 373

<210> 40239
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-046-Q1-K1-D1

<400> 40239

ttttgaatga ttttgagtgg gttgaacttt ttttgtggtc gatgttcatc acctcttggc 60

tcataccctt ctcagagttc gcttgttccg gctgatggcc gtgtacgact cttcaaatgc 120

tacacatcta cagaaattcc tgtaacaggg tctcatgatg tgtttagggg gcatacattg 180

gaaagagttt ttgtgaatct gctgctcgaa gtcgcagaag acgaaatatc ttttcggaca 240

gtagtcagag atttgaaaac caaaaggcca atgctgcaat tagttcttct tagctcanaa 300

gcatggttat cttctggttg ctgctatgaa aatgatacca atggttcaca tggaacatca 360

gatctgcagg ctagtgttaa actctngtat tctgattata agaatgcttc agaagcagac 420

ttaaggacag ttgaagagtg ggcatccaaa tacccggctg 460

<210> 40240
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D11

<400> 40240

cacatgcaaa gatattcttt tctggaagca tattccaaac caattcactg tatatctcga 60

agccgcactg tccgcccctt gggtcctaca aagcgggcga gttctgcaac agcaaatgaa 120

aatgacatgc tcagtaatgg ccaagggttt gttagtactg acaaagtaaa tagtcgtgga 180

cattcaatgt gtctgcatac gcccatgttt cccaagatag aaagtggaat ggtggaagta 240

gtagcgcccc ccaaaatagt atcacaa 267

<210> 40241
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D12

<400> 40241

caacagccag ctcgcgaaaa taatgaagag ccgcagcatg gcatcatcgg ccgcgctctt 60

ggtgctagcc ctcgcgctag tggcggccac cgccccacag gtagcggagg caaagaagaa 120

gagagcggcg gagagcggcg aggcggcgga ggcgaagaag atccaggacg acttctgctc 180

gacgctgtgc gagggcaaga aggggacgga cctggtcgtg tgcaaggagt cctgcgcgct 240

ctcccagcag tccaacctgg tgctgtacgg caggatccag tgcaagggca agtgcaccga 300

gcagaatggc atcacggcgc cggccatgaa ggtctgccaa gaggagtgcg acaag 355

<210> 40242
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D2

<400> 40242

gatttcttct attatatgtt tgcggagata ctcccttctg cgctggttct cttcgtcctt 60

cggaagcttc ctcccaagcg ggtatcggcg caataccacc ctattaacta gggagttctt 120

tgtttttatg atgttacatg ctaagaactc cggataagct ggaactgctg aaaacctaca 180

tccggttgta ttgctgtaat attttatgga agcatcccag ggttggcaag atgcatcatc 240

accatcatgc tctatgagaa aagagttttg agtggtgcta atgagtttgg gctact 296

<210> 40243
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D3

<400> 40243

ccggaacgaa cgacgcagcc caacccgttc ccaccaaacc agcggcacca cccatggctt 60

cggcggcggc gagatccggt ctccggtcgc tggcggtgcg cgccgccccg ttgaggcgcc 120

gcatgtcctc ctccgtccac gacgacgcct atgagacggc caagtgggag aagatcacct 180

acgccgggat cgtgacctgc accctcctgg cggcgtacaa cctgtccaag ggccaccccc 240

acttcgatga gccgtcggcg taccctatc ttcacatccg caacaaggag ttcccatggg 300

gccctgatgg gctggttgag acgaaggacc accactgagc cctgattagc acacctttca 360

ggagctgtgc acgctaaaag gagtatatgg gtgttcagtg att 403

<210> 40244
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D4

<400> 40244

caataagtgt agctccataa agtttgctgt tgattggggc aactctcaca agcagaaggc 60

acagaggata ggaaagcaag gaagcaactt tattcaaaaa gagctcagca tggaatatgt 120

atatgattac atgtttcacc tcttaactga gtatgccaag ctcctaaggt tcaagccaag 180

aaaaccacct gaagctattg aggtctgtcc tgaatctctg gcttgccaag ctataggccg 240

cgagaagaag ttcatggagg actccatggt gagatccgcc agcgatgctg ggccatgtga 300

cctggcttct tc 312

<210> 40245
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D5

<400> 40245

cagcactgcg cctgccgcga ctggcccggc gtcgaccccg cccccgccac cgccccggct 60

ggcgtgaaga aggccgccag cgtcgctgac gacgctggga aggcctccgg caccgccgcc 120

tccactcccg cgcagggcgg cgctgcgcag tgagattcgc gccgcccacc gcgtggtgtt 180

ctgttccctg aggatcggaa cccgccgtgt cgaacgaacg tgtggtcatc catcgttgcc 240

ccgtttgagc atatcaatcc ccgttgggtc gtgtttttcg ggtctgagtg gatttttggc 300

ttttgatcaa aaaaaaacaa aaagaccacc aaattaccct taatatcaaa ctttcaacaa 360

cattttcaaa caaaaaaaaa agggcggcc 389

<210> 40246
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D6

<400> 40246

aatcgattgg agactcatga tctgggtact ggtccagtga aactaaattc aagctttaat 60

gagatgcaca gtgctgatag acaatgcctt gactcagctg atgttcctgc ttcaactcag 120

cctctgtcag tttcacctgt tttgatgagt gatgagcagc atgtcgatga cgcccattct 180

gctgtcaagg ccattgagca cctgggcaat aatctggcta acataaagca gaaatccctg 240

catatggatg tcctcatgtt agaggacgcc aaagttgctt ccatggctgc agtccctggc 300

atgagggaaa atctgtcgac gctggatcaa aatcttttga tatttacttg gagctctggc 360

tg 362

<210> 40247
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D7

<400> 40247

cctcactctc gttccatttc cccatctccc agatccaatt cgcgagttct tcctcctctg 60

ccgccatggc gctctctgtg gagaagacct cgtctggacg ggagtacaag gtcaaggatc 120

tctcgcaggc ggacttcggt cgcctcgaga ttgagctggc cgaggtcgaa atgcccggcc 180

tcatggcgtg ccgcgccgag ttcggcccgt ccaagccctt cgccggcgct aggatctcgg 240

ggtctcttca catgaccatc cagaccgtcg tcctcatcga gaccctcacc gcgctcggcg 300

ccgaggtccg ctggtgctcc tgcaacatct tctccacgca ggaccacg 348

<210> 40248
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D8

<400> 40248

acaagactag gagaagtagt tgggttataa aggctggatc tcatgcaacg atgatggcca 60

acacccttcg cacaccaatc attgtattta cacagacagg ctccatggct gtcctcctga 120

gccactatcg tccctcgtct acactatttg catttacaaa cgaggaacga gtgaagcaac 180

tgctagcact ctaccagggc gtcatcccta ttcacatgca gttctctgac gacgcagaag 240

aaactttctc cagagcaatt agcagcttgc tgaaagcaca atatgtgaag aagggagact 300

acgtcactct tgttcagagc ggagtgactt caatct 336

<210> 40249
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D9

<400> 40249

attaatgtgc cgatcgacgc atgcgtccac gcacgcgtgg tctccaccga cacgcttgga 60

ctcaagccga gaagagtgcc tggccgggag agcgtacgat aatagatccg catgcatatt 120

cttgtttggc ggagacggga gacatggagc ggatcttcta gcggttctac accaactgcg 180

aacgtaagat ctcgctgctc ggagctgaca gaagcgctac tgactctggg gtccacctct 240

gacgacgaag tgcagcgcat gatggcctaa atcgacaccg accgagactg ctgcatctac 300

ttgaacgagt tcatgacctt ctgcaacgcc aaccctgatc tgatgaaaga cgacgcacag 360

gtcttctgat ccattacatc ttcgtccata cgattgaata gatgatgaac ctgcttatat 420

acacacacac 430

<210> 40250
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A9

<400> 40250

ttcacttcct cgctggccca taaatatata tttatctatc gccatcgagc atttataggc 60

ggacagaata attaacatca tggggcaagc ctcacggctc gtcctcctcg ccgtcttggc 120

gctgctgtcc ggcggcctcc tgccgcacgc gctgggtaag gcctggcgtg gcaggcgaca 180

cggaggcgcc ttcaacctgt aggtccacga catctgcttt cgcacgatgc ccccttgat 240

aggctcgctg acgaccggcc gtataacgag ctacctcgta ttctgatcac tgcataacga 300

tatcctgata ttggcacacg gttcatcttg catcgactga tcctcacatt tccgaatatg 360

ccgatttttc cattagtgga tt 382

<210> 40251
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B1

<400> 40251

cggacgcgtg ggctccgcta cctgtggggc ggtggccgcc actagcgcga gggctagcac 60

caagagcgcg gccgatgatg ccatgctgcg gcggaggcga agaagatcca ggacgacttc 120

tgctcgacgc tgtgcgaggg caagaagggg acggacctgg tcgtgtgcaa ggagtcctgc 180

gcgctctccc agcagtccaa cctggtgctg tacggcagga tccagtgcaa gggcaagtgc 240

accgagcaga agggcatcac ggcgccggcc atg 273

<210> 40252
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B10

<400> 40252

ctccgatcca tcaacaatcg ccgagagcga tcgagagata ataaaagatg aagaaagtgg 60

catcatcgtc agccgttctc ttcgtgctag ccctgacgct agtttgtgcc ccgctgatag 120

cagaggcaaa gaagaagaga gtcgccgccg ccgccgccga ggagaagaag gtgcaagaca 180

acttctgctc gacgctgtgc gaaggcagga aggggatgga cctggtggtg tgcaaggagt 240

cctgcgacct ctcacagcgc tccaacctgg tgctgtacgg gcggatccag tgcaagggca 300

agtgcaccga gcaaaaaggc atcaccgcgc cccaaatgaa agggtgccaa aaggcgtgcg 360

acaaggacta cacgggcaaa gcgggtgagg tgacca 396

<210> 40253
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B11

<400> 40253

cccacgcgtc cggaaaattg aggagcagac tggcactgta agaacaaatt gtatagattg 60

tgtggatcgt accaatgtga ctcagagcat gattgggggg aaaattctgg aaagccaact 120

tcaacgtata ggagttctta gtgctggtga tacaataagc aaacatccag cctttgatac 180

aaactacaaa attttgtggg ccaatcatgg agatgcaata agcattcagt actctggaac 240

tcctgctctg aagggagatt ttgttcggta cgggaagcga actactcagg gaattctaaa 300

cgatttgagg aatgcacttg ctagatacta cttgaataac ttcgttgatg ggactaagca 360

ggatgccatg gatcttcttc aaggacataa catgacatct gttagtcgag acatggcagt 420

gccaag 426

<210> 40254
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B12

<400> 40254

caacacatac aggaaaagca agcaagaatc atcggaataa tggctcgtgc atgtgtgtgg 60

ctcgtcgtgc tcctcctggc cgccatcgcg gtggcaccgt tcgcggtcgc cgcacgcgtg 120

gacgtcgtgg agggtaggtc catggcatcc gccgatgcac cggaggcggc ggccgatgct 180

cccgctccta gccccgactc cgcctcattc ccagactcat cgtcagaggc gcccttcagc 240

agcagcttct tcgactagac gcaaaaacct cttcattctc tggaataact aacagtatat 300

acgttgcacc ctgatgatat ataaacatgt acgtgcatca atgtatggaa tgcgagtggc 360

aaacacatgg aatgtgcttg cccaaatatt gcgtatttct ttatttatta tatgtctctc 420

tcgcgggggt tttatttttc tta 443

<210> 40255
<211> 469
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-046-Q1-K1-B2

<400> 40255

caaacatttg cttattagtc cggttcactt ccaggctagg gtcgcaagga tcgggcgacc 60

tttgggtgga gatgaagggg ttcttcatgg catcacagta aaaccacatt gcatgttaag 120

aatggcagtt tttaatggaa ctataaattt catgagttca ctgttgagtc ttcatccagg 180

acctcagtgg gcagcagcgc agcagaggtg gaggtccatc gggagaatgt ggagacagcg 240

acgacgagcc caaccgtgat ttcgccaaat tcggcccgtg gggcggcgac ggaggacagc 300

cgcatgacat cggaacacta ccctgccgtc tagacaggat caagatcagc agtgggctta 360

tcatcgactc gatcgagttc tcgtacgctg gccctgacag ccagtaccgt accgcatgcc 420

ccttgngtgg tcatgganga gacatcagct ctgtgagtgt gatgaacat 469

<210> 40256
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B3

<400> 40256

cccacgcgtc cgcccacgcg tccggccttc atggcctacg aggagaacgt ggcgggcgtg 60

ttggcgcgca ccatggcggc cgtgtcgccg tacgcgacga tgcacgacga cgtgacgtcc 120

gccgcggagg agcagcactc ggcgctcatc ctgctgccgt tccacaagca ccggtcggtg 180

gacggagggc tggaggtgtt ccacccggag atccaggcac tgaaccagag catccagcgc 240

ttctctccct gcaccgtggg catcctcgtc gaccgcggcc tgggcggcgt gccgggcgcc 300

gggtgccgcg tggcggcgct attcttcggc gggcgcgacg accgcgaggt ggcagcgctg 360

gcgatccgta tg 372

<210> 40257

<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B5

<400> 40257

cgcgttcgct cacgtattcg ggaggctttt tcctccacta gaacgagggc taccacgggg 60

ggcgcatcat atgatcccat gctacgatcg cggctaatca caaccacgac aacttctgct 120

cgacactgct ctagttcaag atcgggacgg tgccggtcca gagccaggag tcctgcgacc 180

tatgcctgga ggacaacctg ccgctgatcc gcacgatcca ctgcaagggc cagtgctcct 240

atcacaacgg catcaccatt cccgtcatga acgtcctgca cgatgagccc gacacggcgt 300

acctggtgaa ggc 313

<210> 40258
<211> 468
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-046-Q1-K1-B6

<400> 40258

cccacgcgtc cggctggcga catactatta gtggatggag gaatgatgtc gcttgctgtg 60

aagtctaaaa cagccgatac agtcaagtgt aaagtagttg atggtgggga attgaaatca 120

cggcgccacc taaatgtccg tggaaagagt gctactttgc catctatcac tgagaaggat 180

tgggaagaca taaaatttgg tgtcgaaaac ggtgttgatt tctatgcagt ttcctttgtg 240

aaggatgcca aagttatcca tgaattaaaa gactacctta aaagtgctaa tgccgatata 300

catgtcattc caaaaattga aagtgcagat tcaataccaa acctgcagtc cattattgct 360

gcttcagatg gngcaatggt ggcgcgtgga gaccttggtg ctgaacttcc gattgaggat 420

gttcctttgc tacaggcaga gaatgtccaa acatgtcgaa gcatggaa 468

<210> 40259
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B7

<400> 40259

cgtggacgaa gaggattctg aacctgaatg ggtggaatac aaaatcaaag agacgaacat 60

attcactgtg gacaaatatc agcagatagg gttctttcct gaagaaaagg catttgctct 120

gaggtatcag actgctggaa tgctggagac tgttcttcgg gttggcacgc ttggagaaga 180

tgatactggt gaagaatctc ccaaaaacct gaagatacct tctcgcaagc catctattgc 240

atgtgaaaat cgtctttact cccttgaagg caatggtcga atgagggctt tccacataat 300

ggatccaaag ggagtgcttg acacacttgt tatttttcat gagaagagga tccttctgaa 360

ttaaccccaa ccttttattc ctttagagtg cccacagtga 400

<210> 40260
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B8

<400> 40260

ctaccctcgt cgtcgtctca ctcaccccgc cttcacgcct ccctcaccaa ataaggtccc 60

ggccttttcc gacattcaca ggggggacag gaaatcagcg gccatggcct cgattccggc 120

gacgaccttc gccgtcatct tatccgtcct cttctgtgcc gcggctggca ccgtcgtcga 180

caacgacctc cccgactacg tcatccaggg ccgcgtctac tgcgacacct gccgcgccgg 240

gttcgtgacc aatgtcaccg agtacatcgc gggcgccaag gtgaggctgg agtgcaagca 300

cttcggcacc ggcaagctcg agcgctccat cgacggtgtg accgacgcga acggcacgta 360

cacgatcgag ctcaaggaca gccacgagga ggacatctgc gaagtggtct tggtg 415

<210> 40261
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C1

<400> 40261

cacgacaaga tggcgtgcac agacaatgcg atgagagcct tgttcctcct ggtcctcttc 60

tgcatcgtgc atggtgagaa ggaagagtca aagggcatcg atgcgaaagc gtccgggcct 120

ggtgggttct tcgacatcac caagttgggc gccttcggca atggcaagac agacagcacg 180

aaggctgtgc aggaggcatg ggcatcggcg tgcggcggca ctgggaagca gacaatcctc 240

atacccaagg gcgacttcct tgtcggacaa ctcaacttca caggcccttg caagggcgac 300

gtgaccatcc aagtggatgg caatc 325

<210> 40262
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C10

<400> 40262

ctcccggctc ccctgcctgc gcgccgtctc ctccaggctc cagcgcctcg cggccacggc 60

gtgcgtacca cggctgcacg gccgatggcg taccccgcgg cgccgcacac gagcgcggcc 120

ttcctcgcca gcttcgcgac gccgctcccc gcgcgctgcg cctcgccccc gacccggcgc 180

cgcgcggtgt ctgccgccgt catcgccacc accaccacct gcgtattcgc cgacgccccc 240

cgggggatca agggggaaca agccgactcg ggcgcccaag ccgcggcggc tgcggctgcg 300

ccgaaggacc tcagcccgga caccgtggcc ttcatcatcc ttgggggggg cgccgggacg 360

cgccttttc cggtcaagcg tacaagggcc aagcccgtgg tgcccgtcgg gggatgctac 420

aggctcattg acattccgat gagcaact 448

<210> 40263
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C11

<400> 40263

tgcttctgct acctttaagg aactattgac atgacataaa gcaaccgttg ctgaatttct 60

gtccaacaat tatgattggt tttttgaaga attcaactct aggttgctgt catcaaccaa 120

cttgatagct tgccttttg cgccgctcct cagccatcct ctccatctcg gtgtcacaca 180

ctccgcatac gcacctacga gagtcgagtg acagcgagcg agcgagcgag cgaagccatg 240

gctctccgca ccctggcatc gaagaacgcc ctatccttcg cgctcggcgg cgcggcccgg 300

ccgtcggcgg cgtccgcgag gggggtgacg acggtcgcgc tccccgacct cttctacgac 360

ttcggcgcgc tggacccgcc atctcggggg agatcatgcg cctgcaccac cagaagcacc 420

acgccaccta cg 432

<210> 40264
<211> 291
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-046-Q1-K1-C12

<400> 40264

gtcgtcctcc attctgtcgc cgctgtgttc gtgcctctcc tcgctccccg atcgctggcc 60

ctgggcgccg cgttcgccgc cggatctggg cgcgcgacgg tgccccagac gaaccgatgg 120

cgcgggcggc gcttcgattg ggcgtgcgcg cgctcgcgct cctcgtnctc gtgtgagtgg 180

ctctgcttcc actcgtcagt tccgacgatg ggtacagaca ctgcgagggt gtcgtcaggg 240

gctgggcgga tgcctcgtct gggcgcgtga aggacgggga cacactgagc c 291

<210> 40265
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A8

<400> 40265

cttccagaaa ccactcctgg aatctggaac actgggtaca aaatgtaaca cgcaagtggt 60

aattcctcac cttactgaaa attatgggac ttcacgagac cctcctgaga agcaggcacc 120

catgtgcaca gtccattcat ttccacacaa tattgaccat tgtctaacat gggcccgctc 180

agagtttgag ggtttgctcg agaagactcc aaaggaagtc aactcttttc tgtctaatcc 240

cgctcaatat gctgcctcca tgaaaaaggc aggtgatgct caggccaggg agttgcttga 300

gcacgtatgt gaatgccttg agaaggagtg ttgtggaaca tttgacgatt gcataacgtg 360

ggcaagactg aaatttgaag attacttctc caatcgtgtg aagcagctaa cattcacgtt 420

tcctgaagat gctgccacta gcatgggagc ccatttctgg tgtgct 466

<210> 40266
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H1

<400> 40266

cgctagggcc acctggtacg gtcagcccaa cggtgccggc gctcctgaca acggcggtgc 60

gtgcgggatc aagaacgtga acctgccacc ctacagcggc atgacggcgt gcggcaacgt 120

ccccatcttc aaggacggca agggctgcgg ctcatgctac gaggtgagat gcaaggaaaa 180

acctgagtgc tcgggcaatc cagtcacggt gtacatcact gacatgaact acgagcctat 240

cgctccctac cacttcgact tgagcggcaa ggccttcggc tccctggcaa agcccgggct 300

caacgacaag attcgccact gcggcatcat ggacgtcgag ttcagaaggg tgcgatgcaa 360

gtaccccgcc gggcagaaga tcgtgttcca catcgagaag ggctgcaacc ccaactacct 420

<210> 40267
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H11

<400> 40267

agcgggtcca aggactttgt gcaatgcttg tggattgatg tgggcaaaca agggtaccct 60

gagaagttgc cccagggcaa aaggtgaatc tcctgcggtt gcaactgagc agggaacaag 120

tgacaacaaa gccctggcaa cactgaataa taacaatgtt gctgcaagca atggcgaagc 180

cacaagtgca gcaaagaaag gagtgccaaa ggcgccgtga cagtatatag acattattgg 240

cagagacaaa gatttcggat tctttgccta tagctagaca agacaccccg ttagaaatat 300

ttcgtaatga taatgattgt catcaagtgt acattcattc ttgcttgaca gtgttagacg 360

tgtaattaat ataagcttgc cgattgtgta acaagtaacc catatggcat cttgtgtgtt 420

acaacttaca c 431

<210> 40268
<211> 342
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H12

<400> 40268

cggacgcgtg ggcggacgcg tgggcaagta caagatcaag gtgcgcgggc acaacgtgtt 60

ctgggacgac cagaactcgc agatgcagtg ggtgaagccc ctcaaccttg cgcagctcaa 120

ggcagccatg cagaagcggc tcaagtccgt cgtgtcacgc tacgccggca aggtcatcca 180

ctgggacgtg gtgaacgaga acctgcactt caacttcttc gagacgaagc tgggccccat 240

ggcgtccgca cagatctacc agcaggtggg gcagctggac cgcaatgcca tcctattcat 300

gaacgaattc aacacgctgg agcaacccgg cgatcccaac cc 342

<210> 40269
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H2

<400> 40269

acacacacaa aagcaaaaag catcatcaca ataatggccc gcgcgtgtgt gttcctcggg 60

gtgctcctcc tggccgccgt cgcggtggcg ccgtttgcgg gggctgcgcg tgtggatgtc 120

gtggagggca ggtccatggc gtccgccgac gcgcctgagg cggcggctga cgcgcccgct 180

cccggtcccg actccgcctc atccccggac tcgccgtcgg aggcgccctc cagcagcagc 240

tcatccgact agccgcgcac aacgcagttc ttgtcatgat ctatctagca aataaaaaga 300

tcatatgtct cgtttgattc tctggaataa ctaatagtat atatgctgcg cccggatgat 360

atataaatat gtgcatcaaa tgcgtgcggc aaacgcatgg aatgtgcttg cctagctagc 420

taatt 425

<210> 40270
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H3

<400> 40270

caagatgctc caaatcgccg gcagcttcat cagcaagatg aagccgcttt caccgtcagc 60

tccagcgcga actgccacgc catgatcacc tacatatgcg cagcgtggtt cttctaacta 120

agagagcggg atcgagaaga aattgaagcc gctaataatt agccatcgtt ctctagagtt 180

cctttcttcg tttgttttgg tgtgtgttcc ttttccccgt ttttttttt gttttagtgt 240

gagttctctc ttctgtaaat aagatgcagg tttcatggcc attgtgcctg gctctggttg 300

tgaacctgag aatgagatta catgttttct ttctgattc 339

<210> 40271
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-045-Q1-K1-H4

<400> 40271

ggtgtccttc tccaccgact tgcgtgacgc ctaaccaagc cccgcaccgg cccgcccccg 60

cccccgcctc cctttcgccg caggggacgg ggtcggcacg gggcgatgag gagcagcgag 120

gccatggagc tcctgggctt ccatccctac tccaggccct ccccttccga ggtgaaggct 180

gcgtatagaa gaatggtgat ggagtcccat cctgatcgtg tcccaacgca tctgaaatcg 240

caggctgagt caaaattcaa ggagatcgca gaagcatatt cttgttcgaa ggacggaaga 300

agatcaggga gtangatgga agtcatgtat gcgttctggt gttcgactag cacgggagat 360

caaatagacg t 371

<210> 40272
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H8

<400> 40272

gctatcctgt ggcaactcaa gaggactatt ttttctacaa ttgctaagga acttgaaatg 60

ggactctaaa tagaaagaga ggagggatgc ttacattctc atttgggcta atatcaaggg 120

catggaatca ggcaaaactt cacatattga aagcttcaag gacaaaacga ttgcagatgg 180

ggagtatctt ccatgagctc ctaaatgctg tgcagagcaa gcgttgtaga ctggaaca 238

<210> 40273
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H9

<400> 40273

cggacgcgtg ggcggacgcg tgggtccgta ttcccaggca ggcaggtcgg cgaggagggc 60

gggaagaccg aagaccgagc cgggcggggg ctcgggacgg gaacgggaca ggaccccaaa 120

atcttagatc cttcctgccc gcccgcccgt gcccgtcgac gcgtcgttct tgccggccgc 180

gccccacctc cgtcctctcc tcctgcaggg ggatcggata cgccacaggc tgcgcgatgg 240

tgctgtgggt cttcggctac ggctccctca tctggaaccc cggctttgac ttcgacgaca 300

aaatcctcgg ctttatcaag ggctacaagc gcacctttaa tctcgcttgc attgaccaca 360

gaggcacacc ggagcattcg gcgaggacct gcacgcttga aaccgacgac gaggccatat 420

gctggggaa 429

<210> 40274
<211> 144
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A1

<400> 40274

tcgacccacg catacgcgga cgcgtaggat caccggccgt taagcgttta atctcccaat 60

tccacccaat atctcatggc gtcttctcca acgcacttat cctcgcacca ctatatccag 120

gagcgtcgaa gtgatccacc cgcc 144

<210> 40275
<211> 186
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A10

<400> 40275

acaagatggc atgcacaaac aatgcgatga gagccttgtt cctcctggtc ctcttctgca 60

tcgtgcatgg tgagaaggaa gagtcaaagg gcatcgatgc gaaagcgtcc gggcctggtg 120

ggtccttcga catcaccaag ttgggcgcct ccggcaatgg caagacagac agcacgaagg 180

ctgtgc 186

<210> 40276
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A11

<400> 40276

caaagaaaca agcgcacaag atcaaatacc tcgccgccaa taatggcctc caggtcctcc 60

atcctgctcg ccatggtgat gctggctgcg ctattcgccg ttggtttgtg caccaccccc 120

cctcaccttc caggtcggca agggatccaa gcctggccac ctgatcctca cccccaatgt 180

tgccaccata tccgacgtgg agatcaaaga gcacggtggc gatgacttct cctttacgct 240

caaggagggc ccgactggca cctggacgct cgacaccaag gccccgctca agtaccccct 300

ttgcatccgc tttgctgtca agtccggcgg ctaccgcatc gccgacgacg tcatccctgc 360

cgatttcaag gccggcacca cctataagac cacactcagc atctaatcaa tctctggtga 420

tgaaaataga ttcaaaagag ctcatcta 448

<210> 40277
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A12

<400> 40277

gttagtatat acttatgttt tctaaataca agagactgta taatacaaac acagcggtgc 60

aacgtgcgca acggttttta agcgaagata attgcacgag cataaaactg gggtaataaa 120

taaatcacgc taccaaagaa gagtgctgat gcttgcaact aagtgtacat gattccataa 180

tgaacatcat aaacgtagcg atggcccttt ctattgtaat gatctcttaa aattttagcc 240

cgacatacga atacctggat ctgttatctg ggctgacagt tttgaccaaa ttgaacgtg 299

<210> 40278
<211> 124
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A2

<400> 40278

tttacgcaat cgtgaacatg atcctggcga ttcaaggcga aacctgagct gatatgcgcc 60

gcgcgacggc atccttcggc atcactggga caaaatctgg actgtcactc aagattggga 120

tata 124

<210> 40279
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A3

<400> 40279

gggtcccccct tctctttctc atggcggcgg ctgcggcgtc gacgccgcag ggagtggcgg 60

agcggcgggg catcccggca gcggccttcg ttgaggacgt tgaggcctac ctccgccagg 120

tcgggctcga cgtcaattcc gcgctcgctt ttctccagga aaggctgcag cagtacaaaa 180

tagtggagat gaagcttcta gcacaacaaa gggatcttca ggcaaagatt cctgatatag 240

agaagtgctt ggatattgtt acaacattac aagctaaaaa ggatttgggt gaggcactca 300

tagctgattt cgaattgtcc gaggggatct actcccgtgc aaaaattgag gatactgact 360

cggtgtgcct gtggttgggt gcaaatgtga tgctggagta ctcttgcgat gaggccaatg 420

ccctcttgaa ga 432

<210> 40280
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G6

<400> 40280

cagatcgagt ggctccctga ttcaattgga aagctcactg gacttgtcac ccttgacatt 60

tcggagaatc ggatcttggc cttgccggaa gcaattggga tgctttcttc tttggccaag 120

cttgaccttc acgctaacag aattgctcag cttcccgagt cgattgggga tctttccaac 180

ctgatatatc tcgaccttag gggcaatcag cttgcatcat tgccggccag tcttggtagg 240

ctggtgaagc ttgaggagct tgatgtgagt gcaaaccatc ttacctcact ccccgactca 300

ataagaagcc ttacacgcct gaagaacgtg atcggcgaaa caaacgacct tgatgagctg 360

ccatacac 368

<210> 40281
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A5

<400> 40281

ccaacaccct ctccaccttc catcccgatc accgccgcca ccgctttcgt tccacgtccc 60

gatggcaccg gtagatctaa cccccaggca gccccggaag gcgtatggcg gcgacgccgg 120

cgcctactac gagtggagcc cagccgacct gcccatgctc ggcgtcgcct ccatcggcgc 180

agccaagctc tccctcgccg ccggtgggct ctcgctcccc agctactccg actcttccaa 240

ggtcgcgtac gttcttgaag gcactggcac ctgcggcatc gtcctgccgg aggcgaccaa 300

ggagaaagtg ctggccgtga aagagggcga cgccctcgcg gctccccttc ggcgtggtca 360

cg 362

<210> 40282
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A6

<400> 40282

acacgagcgc gggcgcgcac aagttcgcca acccccacgc cccacccccc acccccgcg 60

tgctgcgcgt cgttggaacc aaggattgga ttagcctcgc cgaggaggag gtggtggtcg 120

gcgaggggct cgcggggatg gggatctcga ggccccttgt gatggcgatg gcggtggcgc 180

tgctgatcgc cgtcgccggt gcgaccgccg aggagcagga gcccctgctg gcggcggacg 240

cggtggccgg cgcggtggag gcggcgctcg gggaggtgga gaccgcggcg ctcatggccg 300

agctggggca actccgggcg aagatctcgg cgctagagtc agacatagaa gagcgatctc 360

aagaactgaa gaataaggat gatgccatca tgaacctgga g 401

<210> 40283
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A7

<400> 40283

gaggaacagt gtgccgctgg agcgtgctgt ggccaaagat acaactagag attatgagga 60

tattatgctt gccctcctag gggcggagtg aggaggcgtg cctcaactcg atctcatctg 120

ctgctacttg tttgatgggg ccaaaaatct gcatcgatgt ggtatccaca tggccgtgtt 180

tttgaataat aatattgtaa cacgtagcct gcattagcag cgcgtattaa ataaaggaac 240

ttcctgat 248

<210> 40284
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F10

<400> 40284

gttgaacgaa agcagctcct tgaatccact tctggcgaga accagctaca cgttgcagat 60

gggtgtttcc atggcgcttg tgtggaagat ttgcgtttag attttactct tccaggttat 120

cctgattatg tgcttaaaga gggtgaagga ggcacacttg ttaatattta taatttagaa 180

cagtatatta cttcggtggt ggatgctaca gttaagtcag ggataaagcg acaggttgag 240

gcatttagat cagggtttaa tcaggtgttt gacatgtcat ccctgcacat attgtcacct 300

caagaacttg actatctaat atgtggccga caagaaattt gggagtcgga aatcctggtg 360

gataacataa aatttgatca 380

<210> 40285
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F11

<400> 40285

acggcacggc catggagcag ctgaccgccg taatgggcgc ctccgagagc tgcgaggacg 60

cgtggaaggg cgaggaggag gatgtccccg tcgccgcgca cgacagggag tacggtcgga 120

tggcgcacat cgccttcgga ttcacacacc acgccgacgt cgccgacgcc gccgcatgaa 180

tcgattaatt attatatata tatatgcatg ctatctacta tgatcgatcg cttctcgacc 240

ttcttgcata gatctgcatg catattataa tgtatattat attgatgcca cgccgcatgc 300

aggtctttcc aaggcgtacg tactatatca aattatttta atttccttac atgtatatgt 360

atgtgctgct gttggatacg tacgtatata tatatcgtct 400

<210> 40286
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F12

<400> 40286

gatacacgaa cgcggcacct tgaatccatt tgttgggcgc accagctaca agttacatat 60

gg 62

<210> 40287
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F3

<400> 40287

acatttgagt ggatcatgga cggattggta ggcctcttga aagtccgggt ggtgaggggc 60

atcaaccttg cctaccgcga cgcaagaggc agcgatccgt atgtcgtcct acgacttggc 120

aagaagaaac ttaagacgag cgtgaagaag agatctgtga accccatctg gcacgaggag 180

ctaactctga ccgtcacaga tcccagccta gctctgaagc tggaggtgtt cgacaaggac 240

acgttcagca gggacgaccc gatgggggac gcggagatcg acgtggcgcc gctggtggag 300

gcggcgaacg cgagcccgga ggcgagcc 328

<210> 40288
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F4

<400> 40288

cttcatcttc ttaccagcct actacgacac ttttattgta tctatcgaga cacacctaac 60

agaggcaaca gtcatagcgg gaacgcgaac cctgtacctc cttggcgcga ctgtcgcggc 120

gctcttaacc acacctgctg acgtggacgc tggcacgctg gaggagatct gaaggggaac 180

ctccttc 187

<210> 40289
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-045-Q1-K1-F5

<400> 40289

cccacgcgtn cgcacgcttt cttcacctga ccaacagcca agccgggagg cacgcttgag 60

agccacacac tgagacctca cgcgcggatg gccgccgccg cgggcgggac cggcggctgc 120

ggctgccaca ttgtagcggt gccgttcccg ggccgcggcc atgtcaacgc catgatgaac 180

ctgagccgcc tcctcgcagc ccggggcgcg gcggtcacct tcgtcgtcac cgaggagtgg 240

ctcggactca tccgctcctc ctccgccgcc gccgctgccg agccggccgg cattcgcatc 300

cgcaccatcc ccaacgtcat cccttccgag cacgggcgcg ccgccaacca ctcaggcttc 360

ctcgacgccg tcgccacaga gatggaggcg cccttcga 398

<210> 40290
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F6

<400> 40290

caaaaacctt cgggatatat ttgctatctt gggtatggat gagctcagtg aggatgacaa 60

ggtgacggtc gctcgtgcaa gaaagattca gcgtttcctg agccagcctt tccatgtcgc 120

tgaagttttc acaggtgctc cagggaagta tgtggagctg aaggaaagtg tgaagagttt 180

ccagggtgtt ttggatggca cgtatgatga cctccctgag cagtcattct acatggttgg 240

aggcattgag gaagtcattg ctaaggccga gaaaatcgcc aaggagtctg cttcataagg 300

cggcttcttg cttgttgaat cctgtacaat caagttccat ttttggattt aagcgattgt 360

ttatgctttt cgcagttagg cagcacgagt tggaggtcca tctcctgctg agatgc 416

<210> 40291
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F7

<400> 40291

ggactgccgt cttctgggca agttcgacct ttttggcatt ccgtcagctc cgaggggcac 60

accccacatc gaggtgacct tggaggtgga cgccaacggt atcctgaacg tgaaggcgga 120

ggacaagggc acgggcaagt cggagaagat cacgatcacg aacgagaagg ggcggctgag 180

ccaggaggag atcgaccgca tggtgcggga ggcggaagag ttcgcggagg aggacaagaa 240

ggtgaaggag cggatcgacg cccgcaacca gctggagacg tacgtgtaca acatgaagaa 300

cacggtgggc gacaaggaca agctcgcgga caagctggaa gcggaagata aggagaaggt 360

ggaggaggcc ctcaaggaag cgctcgagtg ggtggacgac aa 402

<210> 40292
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F8

<400> 40292

cggacgcgtg ggctacaaac acgtgacacc ttcgcccacc ctcgcccccc ccctaccggc 60

ggcgcccaga tggcctgctc ccgcgtcgtc gccgccgcgg gggtctcctc ccccgccgca 120

gcggcggctc gttccccggc gcattctccc gctgccgcct tcgcgcgcct ccggtcgacg 180

cctcgtttcg cgagcgctgg cttgtcggtt aagggaaacg gagcggcgtt cccgttggtc 240

gccgccgcgg ggccggccgc ggcggcaccg gtggccgacc tggacggccg cccggccacg 300

gagaagcagc ccatcatcgt catcgacaac tacgacagct tcacatacaa cctctgccag 360

tatatggggg agcttggatt gaacttcgaa gtataccgca atgatgaact gaccatagaa 420

gatgt 425

<210> 40293
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G1

<400> 40293

cgccctagaa tacacgcctc gtgagcatgc ctttagatat gggagcgcca ccatagccgt 60

ctgccgccgc cgtccccgct tagcactcgt ggtgcgctcc cggacacctc gacggtggtg 120

tggatcgtgt cccgggggag aatcggacgc ggggagccac gttgtggggg gggattgctc 180

gccgccgagt catccctgcc gtggagccac gcatcacgtc gtcggggttc tctacgccat 240

tatcattgca gtgaggtcac gaggatttga agaatcatcc tggtacctag aatctaaagt 300

gccaggagaa gaagatgtgg ttcaagagga gccacacaac gaggagttcg attcgatcta 360

tgtggcgtct cccagttgac tttatggcgc caaggatgga ctttagttcg atctatattt 420

atctttta 428

<210> 40294
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-045-Q1-K1-G11

<400> 40294

aaaagatgga aggaagcgag aacagtgaat agcaacttat gaagagtttt gaggagaaaa 60

aagatgccat gcttagctcg ctgtggaaaa ttaatgtggt cgatattgag tcaacacttt 120

cacgtgtctg ccaagcagtt ctgagagata acacggtctc caaagatgtc ctgaagctgc 180

gagcgaaagc gttgaaaaag ctcggaacga tattccaagg cgcaaaatct atgtaccgtc 240

gtgaaacagc ctgcgcgttg aaacgagcca natcagcagc tactcgccac tgagccatga 300

caccggtaca gggatcgatt gtgatttttg cgggttggct tgtaattgtt gctgtacata 360

catcgaaa 368

<210> 40295
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G12

<400> 40295

aaaagacgga aggaagcaga gaacagagaa tatcacatta agaacaggct caaggaaaaa 60

aaggatgcca agcagagcgc ggggggggaaa ataaaagcgg ccgacaacga ggcaacaccg 120

agacgaggct ggcaagcagc aaagagagac aacacggcgc gcaaagagga gcagaagctg 180

cgagcaaaaa agtggaagaa gcacgaaacg aaaatccaag gcgcaaaaaa aacgaaccgg 240

a 241

<210> 40296
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G2

<400> 40296

cacgcgtcag agaaaaacag ccgatctcct ctcccactcc gatcgcccta ccgatcggcg 60

cctcgtgaag cttccctgtg ccctccccgc cgcccgcgac gcccatggag ccgccgcaca 120

ccgaggaggc cgccgctgct gcagcaggag gagcagaggg cggcagcgca agcccgggca 180

ccggcctcga agggccgatg ctgaggctgg ggctggacgg cggcggggag ggggaggacg 240

gggagctggg ggctggggag gaggcggaca cgtggcttcc agagcggcct ggcgaggcgg 300

actgtggcta ctacctccgc acgggcgcct gcggcttcgg ggagcgctgc cgctacaacc 360

acccccgcga tcgtggcggc actgaggtga gcgcgtctcg 400

<210> 40297
<211> 332

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-045-Q1-K1-G3

<400> 40297

ccctcaaatg cggatgacat atgaggtgct tgcatcgagg agtgcaccaa agaaaataaa 60

gctcctggcg acaagaaaac atgcgaagtg ttgtgcacca agctcacaaa aaagcctatc 120

gaagaaagcg aacatgattg atgaagtaga actccgataa tatatacact agtggatcag 180

tggtcatctt tgtagccatg tctaccacac gaaggccttg attatattgn cttattgctt 240

tggttttggc ttccaatagt atcctaattc cttgttcatg taacctaatg tcactcaaag 300

cattttatat gcctcactta attaaataaa ta 332

<210> 40298
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G4

<400> 40298

cggacgcgtg gggatggccc aaaacaagat gattgtgatg gatcacctcc tttccaccat 60

acgggaggcg gcaagatcga gggggggtcc agaaaaaccc tcaaatgcgg atgacataag 120

aggtgctcgc atcgaggagt gcaccaaaga aaataaggct cctggcgaca agaagacatg 180

cgaagtgtcg tgcaccaagc tcacaaaaaa gcctagcgaa gaaggcaaac atgaatgatg 240

aagcagaact ccgataatat atacactagt gg 272

<210> 40299
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G5

<400> 40299

ggcaggccag gatggagctg caatcagtga ttttggagta tgtcggcatc gtgcgctcga 60

cggggcggct gaagcaggcc gagtggagga tcggtgacct ggagtcggag tgggaggagt 120

tcctgttccg gcgggggtgg aagccgacca cggtgggcgt cgaggtctgc gagatgcgca 180

acctcttctg ctgcgccaag ctcgtcgtca ggagcgcgct ggccaggcgc gagagccgcg 240

gcctgcactt caccgaggac ttcccgtacc tggaagagag caggaggaag cctacggtca 300

tctttccggc cgccgtgcat gagctcacgt ggagcttcaa gccgttgcaa aggcagctgc 360

aagcagatga caatgca 377

<210> 40300
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-045-Q1-K1-F1

<400> 40300

ctaaaacgca gtctgtaggc atgttcatcg acttatgcaa tgctcactgc caatcangat 60

ctcaagacac gtggctagcc gatgggtctc ccacggttaa caagacgcaa attggcaagg 120

cggtggggga ctggtactac gatagggagg tccctcggca gattgattgc ccgtatccct 180

gcaacccaac ttgcaagaac cgtgatgatg attgagcaat tgtataagta gttcatgtta 240

tcgaaatgaa aacaataaag gatcacaacg cgcgcccgta gttgtagatg atgaattata 300

aacacatatg actgagctca aagttgttta atcatcatct gttgcgaaat gaggaagaca 360

attggtgtct tgaagctgtg ttttcgactg tgtctaaagc gtaaatgtaa cgta 414

<210> 40301
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D1

<400> 40301

gctccgctac gcttctgtgc tcgtagtgca gactgcgctg cgagcgatgg cggcgcggaa 60

cgagttcaga ttcaagaagc aggctacggg agcagttaca attcaggctc gctacaggtg 120

ctatagggct cataagtacc acaagaagct gaaatgcgca gccattgttg cacagtgcac 180

atggagagga aggatcgcga ggaaagagct caagaaactc aagatggaag caagagaaac 240

gggtgcgctc aaggaagcga aggacaaact cgaaaagaaa gtggaagagc tcacatggcg 300

cgtgcagtta gagaaacgac taaggacaga cctggaagaa gcaaaagctc aagaggtgtc 360

gaaactgcag aactctatgg aagcattaca ggctaaactg gacgagacaa acacaaagc 419

<210> 40302
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D10

<400> 40302

cgactactta ctgtcgtggt actagcatat tctgctggag cacggcgacc gcatactgtg 60

gggcgccaca aacgggttcg gggcggctcc cgtctaggac tgcgtaaacg tggaccgcat 120

ccactggcac tacggcagcc ggttccacgc cccggagctc accgcaggct actacaacac 180

gctgtgccac taccggtacc tcaccatcga gcgccttctg gcgcgccagg gcgcctgagc 240

taacttcacc tgcatagaga tgcaggacca cgagctgcc 279

<210> 40303
<211> 334
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-045-Q1-K1-D12

<400> 40303

ctcacacacc tccccccctcc tttttaggga gagaaagcaa cgaaacgccg agagaggcgt 60

gcgagcggga gcaaggagat ggagcgggcg gcgccggtga ggagctccca cacctccacg 120

gccgacctac tcgcgtggcc gcagccccag ggccccgccc cagcaacgcc gtcgccgccg 180

cgccggcccg gtcagccgtc ggaggctatc angaaggtgg tgttcggggg tcaggtcacc 240

gaggaggagg ccgacagcct caccaagagg aagccgtgct ccgcgcccat gtggaaggag 300

atgactggga gcggcatttt cgcttgccgg gagc 334

<210> 40304
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D3

<400> 40304

caactatagt agtgattggc tcgatgccca tgcgacatgg tatggtaagc caacatgtgc 60

cagcccggac gacaattggg gcggatgtga gtacaaagac gtgaacaaag gccctttaa 120

caacatgggc gcatgtagga accgccccat cttcaaggat ggtctaggtt gtggatcctg 180

attcgagatc aagtgctaca agccagccaa gtgctctggc aatcccctag tggtgtacat 240

ttcaaacatg aactacgagc ccattgtggc gtacc 275

<210> 40305
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D4

<400> 40305

tttctaattt gttgggggat actaggcgta tgaactagta tctatgcagt gggaactata 60

tcagacagtt attcaaaaat gtgcctgaac accaatagta cgttggagaa cgttgcttcg 120

accaggatta ctatcttcga tctgaaactc tgataagcag aattgaagac aaacgatcgg 180

gtacttgggg aatatggaat ttatttactg ttggtttacc tagtacttgc ctaccagcca 240

ggcgccccag gggacgacgg caaagataca gtctcgggta ttaggatggc aaaggcagcg 300

atagataaat tctactccaa gtatatgttg ggatcacgta agctggtgct tgacccacat 360

tcaacgatct ttggcaaaag gatgcttgtc aaaagtgcga tcatgtgcta ttccaataac 420

acaagataga tcag 434

<210> 40306
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D5

<400> 40306

aggtgcctga tacgaacgcg gtcctatact ttgtgtacgt gaaggcctat acgtgcaagg 60

agttcgaaac cgtgggccga ccccagacga acgtggcctt aatcggcgac ggcgccgatt 120

agaccatcat cacggggaac atgaacttca agatgaacct gaccaccaag gacaccgtca 180

ccattctggc gatcggttac tgcttgttta tgcaggacat gcctatggag aacacggcgg 240

aggccgagaa ccaccagatc ctggctctgc ttttacaaag cg 282

<210> 40307
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D7

<400> 40307

gtgatgcttt ggttggggct actaagcctt tttactagta tctatcctgg ggcaactatg 60

gctcccaaga ataaaaacat gggggttaac accaaaagta ctttggata 109

<210> 40308
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D9

<400> 40308

ccaaaccgac gatggcgtcg aataagacgg tcctcatcgt cgcggcgatg cttctcatca 60

ggctcgtgct ggaggccggc cgggcggcga ccgccatgga ctgcaaggcc gggtgtgacg 120

aggtcacggg cccactccac atgagcatgg aggactgcat gaagaggtgc aaggagatcg 180

ctgctaagca ggggcctagg gacccttaca aggataacaa acttgacatc ccatgaacta 240

attaatgctc ctatatcatc tgcctatcca tgcatgcatt gcattgcgta tgcacactgt 300

gcgtgcctgc ccacaaagtt cgacaacaca ccgatctcga cggatttgta atcgtgtcca 360

ctccatcgag agatcgatcg atgcttgtta ttatacttgt attccacatt atatataa 418

<210> 40309
<211> 186
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-045-Q1-K1-E1

<400> 40309

cggacgcgtg ggataaaaaa aaaaaaatnn aatttataaa aaaaaaaaat aaaaataaaa 60

caaggggggt ttttttaatt gtctttgggg tttcaanttt tctttcccaa tcatattggg 120

tttataactt ttaaatacca acccctactt tccttttcct gccccttttt tttcttcttt 180

tggcct 186

<210> 40310
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-045-Q1-K1-E10

<400> 40310

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcatt tgccaagatt gctcctgcat 60

gccctgccat ggcacacccc atcaccgtcc gtaacctgtt cgacgcgatc accaactcca 120

ccggaggacg gctgcatttc cttatctacc acaagtatct cagaatcctg aacgaggcgt 180

tctgctctgc gaagcgtgtg ctaggggggc acagagcccc tgccctccag ctctccgacg 240

acgaagtgat ccttgacatc cacggcgctg cgacgaccaa gccagttctc cagcacatcg 300

gcacatccac atggcctgng aggctcacgc tgacgaacca cgcgctctac ttcgaggcta 360

tcggcgtcga tttctcgtat ggagaggccg tcgtgtatga tctggcaagg gacttgaaac 420

agtcggtgaa a 431

<210> 40311
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E11

<400> 40311

gaaacacgtc tggcacccct tccatccatt tctgcagcac atccgggcag cctaacgaat 60

gggtttcgcg ccacagctgc ggtcctattc tacatcctcg ccgtcgctgc cctcaccgcg 120

gccgaagcac tggctgagtc accgtataca ggcagtactg ccaagtaacc ggccgagtca 180

cctaaggcag gcagtgctgc tgctcctgcc aaggcacccg agtctgctgc cacgagaact 240

gcccctgata aggcacctca agccggctcc acgccctgcg atgccgctgc ctaatcgtaa 300

tcgacgagta ggaagtttgg accagttgcc gagccgacca ccggcgtcta tacacc 356

<210> 40312
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-045-Q1-K1-E12

<400> 40312

gaagaagatc gcctgcgccg tcctcatcgt cgcctcggcc accgtggcgc tggccgcgga 60

ggcgccggct ccgtctccga ccagcggctc ctccgcggtc gcacccgcca tcgtcggggc 120

cgccgtggcc tccttcttcg cgtactacat tcactgagcc gncggacgag gagcccggag 180

ccggaaggaa gagaccaagg tgggggggaga gacttggctg ggctgcgctg ttctgctgct 240

cccgcgcatt cccgatgcgt gggcgtgctc tgattgggca cgggcgtggc agtggcacac 300

cttcgnctnc cttttggttg ttttttttac ctcctctttc tacttgattt tcaattaacg 360

aattggtatc gctgatgca 379

<210> 40313
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E3

<400> 40313

caacgccatt tagcacctac ggcgaggtcc tctagtccaa aatcatcctc catcgggaga 60

cgcacaggtc ccgcggcttt cgcttcgtca ccttctccac ggaggaggcg atgcggaacg 120

ccatcgaggg catgaacagc aaggagctgg acgggcggaa catcaccgtc aacgaggccc 180

aatcccgctg ctgccgtgga ggcggcagct gtggcgggta cagtggt 227

<210> 40314
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E4

<400> 40314

gtcttgcctc gtgaggctct accacgacgt tgttatcata tctgtcgtgg acatcatata 60

gcatggaggc gttaaaacat gttgggcgac aaaagaagtc cctagcggaa cctggacact 120

acacgccata gtctcgctca acttcccccc ttgaatgccc attgttgtca aatatggtgc 180

ctactccatc accaacgacc tcattacagc gtagttccaa gttggaacca cttataaaac 240

aaaactcatc atggaagtag cttctgatga agaaccatgt tttacaagac ctcatgtggc 300

gcacgatata gcatgacact attttttttt ggca 334

<210> 40315
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E5

<400> 40315

gaaggtcatt caagagaaga acgttcttga ggttcatgtt gagaagggga tgcaacacaa 60

ccagaagatc accttccctg gtgaagctga tgaagcgcct gatactgtca ctggagacat 120

tgtattcgtc ctccagcaga aggatcactc caaattcaaa agaaagggtg aagatctctt 180

ctatgagcac accttgtctc tgaccgaagc actttgtggg ttccaatttg ttcttacaca 240

tctggacaac aggcaacttc tcatcaaatc agaccctggt gaagttgtta aacctgacca 300

attcaaggcg attaacgatg aggggatg 328

<210> 40316
<211> 97
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E6

<400> 40316

ccttggcgac ccatttaaac ccttgtccaa gggcggcatt gtccagaaca gctagttcaa 60

cagcgggctg atgggctggt cgacacaccg gaacgtc 97

<210> 40317
<211> 414

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E7

<400> 40317

gagagagaga gtcccgaagc gagcacaaga tgccaccgca catcggccag gcggcgagcg 60

agacaccttc acacgtctct gggccttccc ctccccttgc gctccctctg tagctgggcc 120

cgaccgaacc cccctacccc ctggaatcat cctccgatgc ggcgccgata ggggctggcg 180

gatgagcgga atggcggggc acggcgagaa gcggcgccat acgggaaggg cccacaaaaa 240

gcccgacgaa gaggatgaag accgcatttc ggatctgccg gacgtactgc gcctgcacat 300

tctgagactg ctgtcgctca aatcggtcat gcagaccggt gcgctcttct cgcggtggcg 360

ccgcatctgg gcgtaccgat ggccggagcc ctactcggtg accattcgcc ttcc 414

<210> 40318
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E8

<400> 40318

cgaagagcta gcgcgcgatg gccaacaacc ttctccgtcc gctcgcgctc ctcctggccg 60

ggctcggctg cgcgctgtgt ccgcgcgccg atgccaccgc gttcgaggtc ggcggcgacg 120

acgggtgggt cgtgccgccg gccagcgacg gcggcaggta caaccagtgg gcatccaaga 180

accgcttcct cgtcggcgac gtcgtccact tcaagtacag cgaggactcg gtgctggtgg 240

tgacggaggc cgactacgac agctgccgcg cgtcgcaccc cgtcttcttc tccaacaacg 300

gagacacgga ggtgacgctg gaccgcccgg gccccgtcta cttcatcaag ggcgagaccg 360

gccactgcga gcgcggccag cggatggtcg tcagggtcgc cggccagggc gcaccccc 418

<210> 40319
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E9

<400> 40319

cccacgcgtc cggacctgcc caagaccagc gacaaggacg acgtcgtcaa cttcagcctc 60

gacttcgaga agctgcagcg cgtcacgctc gacctcatca ccgaggcgtc cggcaccatg 120

tccgcaggca tcgccctgcc accctccaac gccggagcgc cctcctacgg cgcggcggcg 180

ccttccgggg gctccgccga tgcccccgcc ggcgcctccg agggccctgc gagcgccagc 240

ggcccgtctg gtgacgacgc gccggcgtcc ggtgctggtg ccagcgcgtc ggctgctgat 300

gc 302

<210> 40320
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C9

<400> 40320

cgagaaggag tacaagtctg acattaacat tttctccaat gctagctgca caaccaactg 60

gcttgctcct cttgctaagg gcatcaatga caagttcggt atcgttgagg gtctgatgac 120

cactgtccat gccatcactg ctacccagaa gactgttgat gggccctcgt ctaaggactg 180

gaggggtgga agggctgcta gtttcaacat cattcccagc agcactggag ctgctaaggc 240

tgttggcaaa gtgcttcctg tccttaacgg aaagttgact ggaatgtctt tccgtgtccc 300

aacccgcgat gcttctgttg ttgatttgac tgtaaggctt gagaagtcac caacctatga 360

tgag 364

<210> 40321
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B1

<400> 40321

caagggctgt ggctcatgct acgaggtgag atgcaaggaa aaacctgagt gctcgggcaa 60

tcctgtcacg gtgttcatca cagacatgaa ctacgagcct atcgctccct accacttcga 120

cttgagcggc aaggccttcg gctccctggc aaagcccggg ctcaacgaca agcttcgcca 180

ctgcggcatc atggacgtcg agttcagaag ggtgcggtgc aagtaccccg ctgggcagaa 240

gatcgtgttc cacatcgaga agggctgcaa ccccaactac ctggccgtgc tggtgaagtt 300

tgtggcggac gatggcgaca tcgtgctgat 330

<210> 40322
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B11

<400> 40322

catatccaat taccaccctg agcactggca gtcatcatgg agtgtgcgca cagcgttggt 60

ggccttgatt gcattcatgc caaccaaccc tggtggggca ttgggctcat tggattacaa 120

aaaggaagat agacgggcac ttggtataaa atcacgtgaa gcaccgccaa aatttgggtc 180

cccagaacga caaaaactaa ttgatgagat ccatgagcaa atgctcagta aggctccttc 240

tgtcccccaa acgctaccaa atgtgccaaa cgaggagtct aacgaattac ccgcatctga 300

cccttctggc gagcatg 317

<210> 40323
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B12

<400> 40323

acggcggcca tcgagatact gcagcagttc gactgggagg tgcccgactg ggtgatcgtg 60

ccgggaggca acctggggaa catatacgcc ttctacaagg ggttcgagat gtgccgtgtc 120

ctcgggctcg tggaccgcgt gccgcgcctc gtctgcgcgc aggcggccaa cgcgaacccg 180

ctctacggct actacaagac aggctggacc gagttccagc cgcaggtggc caggccgacg 240

ttcgcgtcag cgatccagat cggcgacccg gtgtccgtcg accgggccgt ggtcgcgctc 300

aaggcgacgg acggcattgt cgaggaagcg acggaggaag agctcatgaa cgcgatgtcg 360

ctcgccgacc gcacggggat gttcgcctgc ccgcacaccg gggtc 405

<210> 40324
<211> 97

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-045-Q1-K1-B2

<400> 40324

attcatagca gaccagtagt actagtttnn ttttttttcgt taaagcaggt gcctgtgcct 60

tatgggggta ccacttgcct ttcaggggggg gcctgcc 97

<210> 40325
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B3

<400> 40325

aagcagcatt ggatgcaaac atatatgaca ctcaacctgg agggcgaaag acagttggaa 60

ataatttgat tgtgaaagat caagtcaatg atccattgac tgaaaagatc gctgaactta 120

gagaacccac atttccattg gatgatggaa aagatttgca gcgtaatgct agtcatgagt 180

taccacaaca tctcgaagac aatgatgttg ccaaaaaaga aatcatacca ttacaatctc 240

tgctcccttt accagtaccc aaatcacct 269

<210> 40326
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B4

<400> 40326

cggacgcgtg ggctctcccg tccggcactt tcttcgatcg actagcctgc ggcggcgccg 60

gcgccggcga ccagcggcca tgcgggtggc acccagggtg ctcttcctcg tccgcgacgc 120

cgcgggctac ggcgctgccc tcgccgacgc gctccgcccg ccgcccgggc taacgaggga 180

gtcctcgccc ttcgagctcc cccttggaaa gtacggcctc gacggagaga aggcgtgcgc 240

cgagctcctg agcttttccg attccagtgg ctctccacag gtgaccattt ttgttctgcc 300

agactataag ccacctcttg cagcgtgtgt tgtaaatggg gtcttggaac tgatttcttc 360

tgaagctacc tccactgagc gaactctaat tgtcccatac atcacaagat cgtcaagcta 420

tcatcatgga ac 432

<210> 40327
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B6

<400> 40327

gacttactcg aggccatcat agataagaca tttgaagatg ctgatgcgga taaggatgga 60

aaaataaata aagaggagtg gaaggaattt gcgttacgcc accctaacct gttaaagaat 120

atgacactgc cttatctgag ggacatcaca accgtcttcc ctagtttcgt cttcaacacg 180

gcggtggaag attagtcgct ccaattgaag gcaataaagc agtactgggg attgcttgag 240

gtgcacaagg ttcctgaaac ctgacggctg ttggtcgcct tcaaccactg agaatccgat 300

gtgttctgag catcaaggca gccgccacct gaccatcact cctgctataa attataatat 360

aaattataag gctcatccgg ggtggcagat cggcagcggg aacttacctg atataatttc 420

<210> 40328
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B7

<400> 40328

catccgcgtg ctgatcacgg tcatgaacac gttcaagcgc atgctcatgc gcatcctcga 60

gaacttccca gacaaggtgc gcgccgaggt ccacttcaac gcgacgctca accaccacat 120

catggaccac atcatcgtcc tcgccgacat catccgcttc aagacctgct tcctgatcta 180

gctgcatatg atgctatacg ggacgccatg cgcctgggcg ttcacctgtg gactcatcga 240

caccatcatc gacagcaaga tcggattcca catcgg 276

<210> 40329
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B8

<400> 40329

ctcatccgca tacgttgcga tggtggtgtc ttttgctgga aaggcggtag cggtgcagaa 60

ggcgctctca gacaagcaaa ccgggtcaga cctgctgcct gttgagatgg ctgtgctgca 120

agatggagaa ttcacctggt tcactgataa agcagcggtg tccttgcttg agaacaagta 180

gagtcccatg gtaaccttgg ctcgaagcca ttttatctca taaaataaaa gatccagggg 240

cctg 244

<210> 40330
<211> 159
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B9

<400> 40330

caaatgcgaa gacggtctca tcgacgtttt tcttagctct acggtgatca ccatccttaa 60

gggccactta aacaaccaca gcggcgtcat tctctttggc gccaaccact cctggccgca 120

agatcagaac attcacttca tcgctgattt caaccactt 159

<210> 40331
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C1

<400> 40331

cggacgcgtg ggaagaaagc caaagaaggg gggcagcatt catgggccag aagcgctggc 60

gttcgaggga cctagccggc agtctatcga ggcaccgaaa acgaacaact gggacaacgt 120

ctggggaaac tgagatcatg cctatgggtg caacgagttg aatcatatag aagaagtgca 180

agggctatga cctatgggag cttgcttgcc ttttgattca tcaaaaagaa gattgcggcc 240

agataccgcc tttggtggca acttatggga agctgtgaag aagaaactgc tgggcctctc 300

ttgcttttcg cagctttgct ttgatgtacc tgcgagggcc atggcccatg acagtggtag 360

gtttttcttt aatcgcaact gtaagggttg gtgaagaacg gttttacagt gcactgatat 420

a 421

<210> 40332
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C10

<400> 40332

ctttgatgga catcagcctg gatacatttc cctatgctgg tactacgact acatgtgaat 60

cgttatacat gggggttcca tgtgttacaa tggctggtgc tgttcatgct cataacgttg 120

gtgtcagctt gctcagcaaa gtcgggttgg ggaggctggt tgccaaaact gaggatgagt 180

atgtgagcat agcgttggat ttggcatcag atgtgaatgc cttgcaagaa ctgaggatga 240

ccctgaggga gctgatgatg aagtcgcccg tctgcgaggg agagagattc acccggggcc 300

tggaagctgc atacatggac atgtggcgca cgtattgtga cggagacgta ccatctctca 360

agcgcttagc actgttagag gaacatcctg ttgccaatga gccagactcg gacaaa 416

<210> 40333
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C11

<400> 40333

cgaaggttct tcagagtaca atatatgaag ttgaccttga tcgaattctt cagagcatcc 60

atatttattt acaagaactt gggatggaag aaatacggag aagggctggt gctgatgaca 120

agccattgat aatggtcaaa actgtcttgc atgaacttgt gaagcttcgg tgaacggcaa 180

taaagggtca cctttcaatg gttcctataa atgctgaacg ctcagcaata attctagcat 240

acattgatct caatctccaa acccttgcag ccgctagaat gttgacgcca tcggggccta 300

tgggtcaaac tcactggggt gatgctgcat cgaacaatcc aaatccatct actcactcag 360

ctgacgcgca attgaagcaa gagcttgctg ccattttcaa gaaaattggt gacaagcaaa 420

catgtaccat tg 432

<210> 40334

<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C12

<400> 40334

ggcaaacggc gcgctggtcc gcgtcctgtt tctcaccagc gtgaccaagt atctcaactt 60

gaaggctgtt gacgggagct gtgtgtacaa caatggctac atccacaaag tcccggcaac 120

cgacgtggag gccctcaagt cgaacctgat gggcctgttc gagaagcggc tcgcccagaa 180

gttcttcata tacgtgcagg actacgagga ggacgacccc aagtaccacg agggcctgga 240

cctcaacatg gtcaccacca gggaagtcat ctccaaatac agattggaag atgatacggt 300

ggactttatc gggcattcgc tagcacttca ccgagaccac aactaccttg acgagcctgc 360

tatcgaccac tgtcaagagg atgaagctct atgc 394

<210> 40335
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C2

<400> 40335

attcgaattt gtagagcgtg attatgctgc acatcttgat ttaacagcta aagtctatgg 60

tcttcataaa gcagaacaga ctattgagaa aattcctgca tcttgtaggg gtgagattgt 120

gtatagaaca cttttggcca attgtgtttc tgcatccaat ataaaaaaat cggagcacgt 180

ttttaatagg atgaaggatc ttggatttcc ggttacacaa ttttctttca atcagcttct 240

gttactctac aaaaggctgg acaggaagaa gattgctgat gttcttgcaa tgatggaaaa 300

ggaggatgtg aaaccatctc tctttactta caagattctt gtagatgcca aaggttcagg 360

tggagatata gaagctatgg agaaagtgat tgaatcaatg 400

<210> 40336
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-045-Q1-K1-C5

<400> 40336

cggacgcgtg ggccgggact gggggttcgc gggggactac gtcgagggca atgtggctca 60

tgctgcagca ngaacagccg ggggagtacg tcgtcgccac tgaggagtcc cacaccgtcg 120

aggagttcct gcaggctgcc ttcggctacg ccggcctcag ctggaaggat cacgtggtca 180

ttgacaagaa gtacttccgg cctgcagaag tcgacagcct caaggggggac gccaccaagg 240

cgaggaaggt gctcaagtgg aagcccaagg ttgggttcca ggagctcgtg gagatgatgg 300

tcgatcacga cattgagctc gccaagaagg agaaggtcct ggtggatgct gggtaccgtg 360

atcccaagca acagccatag aaacatcaca gttgcttctt gctctgntgg ggctcggatt 420

c 421

<210> 40337
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C6

<400> 40337

cagggagaag atgacccaca tcatgttcga gaccttaaca cccccgctat gtacgtccca 60

tccaggccgt gctctctctg tatgcccagg gccgtaccac aggtatcgtg ctcgactcgg 120

gagatggggt gagccacacc gtccccatct acgagggata cgccctcccc cacgccatcc 180

ttcgtcttga cctggccggt cgccgacctc aaccgactat cctgatgaaa gaatcctgga 240

ct 242

<210> 40338
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C8

<400> 40338

aaaaaaacca gcagctagcg atggctggag cccgggcact gctcatcgtc ctcgcggctg 60

gcgtcgcggt cctggccgcg cgggcggcgt ctgcaggcgg gggagccgcg gcggtggcgg 120

agatctgcat gaagactccg tcccccgacc tgtgcaccaa gacgggggggg aagcacgcca 180

acaagtacaa gggggtggac gcggggacgg tgctagagat gcaggtggac gcgttcaaga 240

aacgcgtgaa ggcggcgcgg aggcttgcca aggaagaggt caagacggcc gcgacgcccg 300

aggcgcggag ggcgctgaac ctctgaagaa ctactacctg gacg 344

<210> 40339
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A8

<400> 40339

gcctatagaa gcaatcaggc gagcggcgga tgtggcgcga tgggagagca cgtcgtgacg 60

gagcgtatcc agcggaagct ggaggaggcc aacgctaccg tccaacagca cctcgccggc 120

atccaggacc acgtcaactt caccatgcag caagcatact tcaagtgcgc atatgattgc 180

ttcgatcggc gccgtactca cgaagcgatc aacaattgtg tggagaattg tggtatgcct 240

gtccttgctg tcaacaatgt ttttgagagt gagatggcca agtttcagga acggttgaac 300

cggtcattga tggtctgtca agataagctt gaagctgcca agctccaaaa gatgaaaaca 360

gatgcaac 368

<210> 40340
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G9

<400> 40340

ggcggccacc gccccacagg tagcggaggc aaagaagaag agagcggcgg atagcggcga 60

ggcggcggag gcgaagaaga tccaggacga cttctgctcg acgctgtgcg agggcaagaa 120

ggggacggac ctggtcgtgt gcaaggagtc ctgcgcgctc ttccagcagt ccaacctggt 180

gctgtacggc aggatccagt gcaagggcaa gtgcaccgag cagaagggca 230

<210> 40341
<211> 308
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-044-Q1-K1-H10

<400> 40341

caagaatttg ggtcccttgg ttaagacagt gatgactcgt tgcatccaat gtacaaggtg 60

tgtgaggttt gctactgagg ttgctggagt tcaagacctt ggtatgttag gtcgtggcag 120

tggtgaagaa attggaacat atgttgagaa acttatgaca agtgagctat ctggaaatgt 180

cattgatatc tgccctgttg gtgctcttac atccaagcca tttgcattta aagctcggaa 240

ctgggaactt aagggcacag agactattga tgttactgat gcagtgngat ccaacataaa 300

aattgaca 308

<210> 40342
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H11

<400> 40342

ctcccacatc taactccccc cgactcacga gttccagaga gcctccatgg cgacgcaccg 60

tcgctgcctc ccactcctcc tcggggccgc cgacctcgcc ctcgccgccg tccctgctcg 120

cgcggcgctg ggcggcgggc gcggcccgct gctgggcggg tggaacccga tccctgacgt 180

gagcgactcg cacattcagg agctaggcgg gtgggcgctg gggcaggcga agcaccagaa 240

gctggccgcc gacgggctgc ggtttcgccg cgtggtgcgc ggcgagcaac aagtcgtgtc 300

cgggatgaac ta 312

<210> 40343
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H12

<400> 40343

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggat ttatgctgag 60

gaaggttcag aggctatgga tgtggctgct gcccctgctg tccaggcaag ctcgttttcc 120

tgacggagac aactgcccct gctgtatgtt ctgttatttt tcagctttca cagcctaaag 180

ctacttgttc tgttattttt caggcattgg caagatacac acgaagggag gcaacttgcc 240

tatcattgac tggcaaagat tctatgttct cggggaactt taaattcaca gctctgctgc 300

cggcaactcc cagtcccagc cccaaaaaag cctgtgcgat gaactgccgt 350

<210> 40344
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H2

<400> 40344

cccggcggcg cgaagcggag ggtgagaata tcggagttcg gcgatgtcga agcggcaggg 60

agcgccgaaa caccagaacc gctgcgcgtg gaagccgaac cttggtcaga agatcaacga 120

aaccgagccc gggggcaggt tccgacctct gtcagaaatc accggcgtct gtcagcgctg 180

ccgggatcaa atcgactgga aacgcagata cggaaaatac aagcccattg ttgagccagc 240

aaaatgccag aagtgtaata agcgaaacgt tcggcaagca taccataaca ttgctccaag 300

gaccttggca tatgtgctaa gtgctgcaca tgtg 334

<210> 40345
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H3

<400> 40345

caaccgtgtg ccttttggag acgcgatgtc gtccggcaac aagatcagcg tggccttgct 60

gagcgtggcc ctagtgggcc tgctcctctg ccacctcgcc accaccgcct tcgtccacca 120

gaaagacatc cacgtcctcg gcagcgtcga cggctccagc gacggcagca gccccgagtc 180

cgaaggccgc gtcgtctacg cggacatgaa gctggctgat acggaatccg atgcgccggc 240

gccggcgccg gcgccggggc cgtcgttcgg ttgaactgaa aagcgtgcg 289

<210> 40346
<211> 286
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H4

<400> 40346

caagaatttg ggtcccttgg ttaagacagt gatgactcgt tgcatccaat gtacaaggcg 60

tgtgaggttt gctactgagg ttggtggagt tcaagacctt ggtatgttaa ggcgtggcag 120

tggtgaataa attggaacat atgttgagaa acttatgaca agtgagctat ctggaaatgt 180

cattgatatc tgccctgttg gtgctcttac atccaagcca tttgcattta aagctcggaa 240

ctgggaactt aagggcacag agactattga tgttcactga tgcagt 286

<210> 40347
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H5

<400> 40347

caagaatttg ggtcccttgg ttaagacagt gatgactcgt tgcatccaat gtacaaggcg 60

ggtgagggtc gctactgagg tcgcgggagt tcaagacctt ggtatgttag gtcgtggcag 120

tcgtgaagaa attggaacat atgttgagaa acttatgaca agggagctat ctggaaatgt 180

cagtgatatc tgacctgttg gtgctcttac atgcaagcca tttgcattta aagctcggaa 240

ctgggaactt aagggcacag agactattga tgttactgct gcagagggat ccaacattac 300

aattgacagt agaggacctg aagctatgct tgtt 334

<210> 40348
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H7

<400> 40348

caacagatga tggatggttt tggaggatac tatgatgaat gcatgtactg gagacaaaat 60

gatgaaattc atgatgctca taaggaggca tctgctccat gttcatcagc tcctgtctca 120

catcttggtg ctcatcagca agagtgttgg cagcactctt catatggaag tcaacatcac 180

gataaccaaa atttacttga aatggaagtc agggtaaggg gtgaaatgtc ccacattcaa 240

caatgaatat a 251

<210> 40349
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H9

<400> 40349

gggcgcttcg ccggcgacga gcatccgcca ggtgcccagc catgtcgtcc aatgcggggg 60

cctccgtcgc tcccatgggc ggcggcgctg ctcgtgcccg cagtcgcagc ttcgggagca 120

gcagcagcaa cggccgggcc gccgacggca atggcgctgg ggtgttcgtg agggcggggg 180

ccgacaacga gatgtacgtg cgggcggata agatcgacct caagaacctg gacgtgcaac 240

tggagaaggc gccgtcccaa gtgtggctgg agcacc 276

<210> 40350
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A10

<400> 40350

ctccacctat cttcttcaga cgaccagcag gatgtacgag caagaccacc taggaggcct 60

ctctctccct ctccccagcc acccgcgtag cgagagggag ggcggaagag gatgagcgcg 120

tccaggttca taaagtgcgt cacggtcggg gacggcgccg tcggcaagac ctgcatgctc 180

atctcctaca cctccaacac cttccccacc gactatgttc cgacagtgtt tgataacttc 240

agtgccaacg ttgtggttga tggtaacact gtcaacctcg gcctctggga cactgcaggt 300

caagaggatt acaacagact gagaccactg agctatcgtg gagctgatgt ttttcttctg 360

gctttctcac tgatcagtaa ggccagctat gagaatgttt cgaagaagtg gatacctgaa 420

ctgaagcat 429

<210> 40351
<211> 429
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A11

<400> 40351

ccgcaagttc atgaacaaac cagtgagaat tcttgtgaag agagatgagc tgacccttga 60

gggtatcaag cagttctatg tgaatgtgga caaggaagac tggaagctgg acacactgtg 120

tgacctgtat gagaccctgg ccattaccca gagtgtcatc tttgtcaaca cccgccgcaa 180

ggtggactgg ctcactgaca agatgaggag cagggaccac accgtttctg ccactcatgg 240

tgacatggac cagaacacta gagacatcat catgagggag ttccggtctg gctcctcccg 300

tgtgctcatc accactgacc tgcttgctcg tggtattgat gttcagcagg tgtccctggt 360

catcaactat gatcttccca cccagccaga gaactacctg catcgtattg gtcgtagtgg 420

tcgttttgg 429

<210> 40352
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A12

<400> 40352

cgtccgggct cgtcctcctc tcttctccat cgccgttggt tctctcacgc cacacggtca 60

tccgatccct gtccaccgcg ttgggagcgc cgcagcccat ggacgacaac gagagagaga 120

aagagaatga gaatgagaag gagaagcact acgggactga cgtcgaggat gaagaagagg 180

acgaggaagg taacaagcga gtcgtggtgc ttggccccca ggtccccctc aaggagcagc 240

tcgagctcga caaggatgat gagagcctga ggaggtggaa ggagcaactc cttgggcagg 300

tcgacacaga gcagctggga gaaactgcgg aaccagaggt caaggtgctg gacctgacca 360

tcctgtcacc tggcagaccg gacctgatcc ttccgatccc gttccaggct gacgagaagg 420

gctatgcgt 429

<210> 40353
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A2

<400> 40353

attcactgga gatgactgtt gtgagtatca tgtggtcgtt agtgcaagtg cacgtgctgg 60

tggtggtggc actagcattt ctggtaggcg gtgcctggtg tggtcctccc aaggttcccc 120

cgggtaagaa catcacggcc aaatatggta gtgattggct agatgccaag gcgacatggt 180

atggcaagcc gacaggtgct ggccccgacg acaatggtgg cggctgcggg tacaaggacg 240

tgaataaggc ccctttcaac agcatgggcg cgtgtggcaa cgtccccatc ttcaaggacg 300

gtctaggttg tggatcctgc ttcgagatca agtgcgacaa gccagcagag tgctctggca 360

agcccgtggt ggtgtacatt acggacatga actacgag 398

<210> 40354
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A4

<400> 40354

agcagcaatg gcgctgcttg cctccgactt tcctcgcgtc atctcgtgct tcccaatccc 60

tatagataga actggattga tccccatgga cccatgattc tctcagacgc cactgcgcct 120

gttcgacgac gcgaagccag aaggcctcgt ggtcggggag gctgacgcag agagggacga 180

tgggaacggg ggtacccgcc tacaacggcg ctcggggcat aatagttggt caggcgtgat 240

catagggggct cactagaggc gcgtgcatcg gtccgtgggg ccgaagacgg tcggtgcggc 300

ggcgattgct cgctgggatc cgcaagaacc gccgtccgat catcctgcgt tgtcagcact 360

ctttccatca gcgccttcgg tcacgaggat ctgaagaatc accctgggac ctggaatttc 420

aagtgccaag c 431

<210> 40355
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A6

<400> 40355

ggtggagcac cgagtacggc gacttcttcc tgtcgtggga ctcgcacatg ctgctggagc 60

acggcgaccg cattctgtcg ggcgccacgt acgtgttcgg cgcggcgccc gtggaggtct 120

ccgtgaaagt ggccggcata cactggcact acggcagccg gtcccacgcc cccgagctca 180

ccgcgggcta ctacaacacg cggcgccacg acgggtacct taccatcgcg cgccttctgg 240

cgcgccacgg tgccgagctc aacttcacct gcgtggagat gcgggaccac gagcagccgc 300

aggaagcgcg gtgcatgccg gaagcgctgg ttccgcacgt gggcgccgca gcgcgcgc 358

<210> 40356
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G8

<400> 40356

gttctcctgg taaaagagca tcgatggagg acttctatga ggcaagaata gacggcgttg 60

atggagagaa aattggagat gttcggcgta tatgatggtc atggaggagt ccgagcagct 120

gagtatgtta agcagcacct tttcagcaat ttaatcaaac acccaaagtt catcactgat 180

accaaggctg ctatcgccga aacttacaac ctcacagatt cagaatttct gaaagctgat 240

agctgtcaaa ctcgagatgc tg 262

<210> 40357
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E7

<400> 40357

atgatgatgg gatcacaaaa gcttgcagct gtcctttgct tccactgaaa actcatatca 60

agggcccggc accagcctct gaccctgata aagcggacat tgttgatgaa gccataactt 120

tctttcgagc caatgttttc ttcaaaaatt tccatgtgaa aagctcagca gacaagttat 180

tgatctatct gacgttttat atcaatattg ccttaaaaag actagacggt tgccggacac 240

t 241

<210> 40358

<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E9

<400> 40358

agcttgtgga gtgctccggc aagcccgtgg tggtgcacat cacggatatg aactgtgagc 60

ctatcgcggc gtaccacttc gatttggcag gcacgacgtt cggcgccatg gccaagaagg 120

gtgaggagga gaagctgcgc aaggcgggca tcatcgacat gcagttccga agggtcaagt 180

gcaagtacgg ctccaaagtc accttccacc ttgaaaaggg gtgtggcccc aactacctgg 240

cgctgctggt caagtacgtc gacggcgacg gtgaca 276

<210> 40359
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F1

<400> 40359

gtttgaaatg gtagaattaa gaatattttt ctcatccctt gagatttcta cgctattgat 60

cttggttcct agtgtctcag gaaagaatta caatccgact ctagcatgac ttccatcgga 120

tcactaaaaa agactactta aggtgatagt gtagaggatt aggcataatg cgtgcgttta 180

attgcacgga acctttcagg gaaaaaaata tttagttcag agggttggag ggcaagatgc 240

ctctcgggga tacatatgtc agtacgagat tacaatgtcc taacggccaa atatactcaa 300

cactgttaac ctttttttata aggtggctaa taaaaaataa ca 342

<210> 40360
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F10

<400> 40360

gatcacgaca agatggcgtg cacaaacaat gcgatgagag ccttgttcct cctggtcctc 60

ttctgcatcg tgcatggtga gaaggaagag tcaaagggca tcgatgcgaa agcgtccggg 120

cctggtgggt ccttcgacat caccaagttg ggcgcctccg gcaatggcaa gacagacagc 180

acgaaggctg tgcaggaggc atgggcatcg gcatgcggcg gcactgggaa gcagacaatc 240

ctcataccca agggtgactt tcttgtcgga caactcaact ttacaggccc ctttgcaggg 300

cgacgtg 307

<210> 40361
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F11

<400> 40361

cgtacttgta ttctagcagc aaagcaaaga ggatcggatc agaagaaaag aatagttagg 60

tccccggggt cgatcgaacg aaagctgttg tgctacccgg cggccggcat gacgatgaca 120

cggacgatgt gcctaggcct gctgcttcta ctactggcgg cggcgtcgac agcgacggcg 180

catttcacgg tcggcgatgt ggatgagtac gtgtccaagc gcacgcagga gtcccgccac 240

aggaacaacg ggtggcgcgg gcatcgatga cctcatctcc agtgcggcgc gctttcacgc 300

caacgtggat gcacgcgcct atggccgtag atccgacctg caggaggagg caacagctac 360

cgtattaacc aaagcggaag cacaaga 387

<210> 40362
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F12

<400> 40362

ctcaagcgtg cagacttgga ccacttcgtg gtcaacaacg acgactcgcc gcactcctca 60

tgagactccc cgacggcgga ctggtcttga cctgccgagg cagcggcggc tcacgctcac 120

gtctatcacc agcagcagca agaggagcag cagaatgggg gcaagcacaa aggcagctgg 180

gctcgaggac gagctggcac ggtgaccaag ctgcacatca cggcgccgca gagccctcag 240

acggctcccg cgggcatgg 259

<210> 40363

<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F2

<400> 40363

gtgatttgaa ataattggga ataaatagtt cgtgaatccc tgaagcgtgc atatatatat 60

tcctgccaag ataaaggtaa tggagtcgtc acgcaggttc cagccggccg tcatcctgct 120

tctcctgctc attgtgtcca ccgatatggc acaggcaagg gaatgcgaga agtacagtga 180

gcgatttgtt ggggcatgca tgatcgcaga caactgcgcc aatgtgtgcc gcggtgaggg 240

ct 242

<210> 40364
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F3

<400> 40364

gtgatttgaa ataattggga ataaatagtt cttgaatccc tgaagcgtgc atatatatat 60

tggtgccgcg attaaggtaa tggagtcggg acacacgttt cagccgggcg ttatcctgct 120

tctcctgctc attgtgccca ccgatatggc acaggcaatg gaatgctata cgtacattga 180

gcgattcggt ggggcatgca tgatcgcaaa taactgctcc aatgtttgcc gggtagaggg 240

ctttttgggc ggcaagtgct acacct 266

<210> 40365
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F4

<400> 40365

gtacatgcta cggaggattg ctgcaaagct tccgatatcc cagggtcacc ccaccagcag 60

gggctcgaga ccagggatta ccgtatggtg agccaaaaat ggggactgac gtccagctat 120

gaaaaaacca ctgcctcccc ctatatataa tacttgcatt ggcagcctct ctgcaaaaaa 180

tatattggga tgagactccg caccgatatt ctttttctag accctactca catgggagcc 240

atctctattt tt 252

<210> 40366
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F5

<400> 40366

gtacatgcta aagaggattg ctgcaaagct accgatatcc cagggtcacc ccaccagcac 60

cagctcgaga ctaggcacca ccatatgctg agccaaaaat ggagactgct gccaagctat 120

gaaaaaacaa ctgcctcgcc caacatataa cattggcttg gccggctatt ctccaaaa 178

<210> 40367
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F6

<400> 40367

ggcaagcaag tggaggaagt ggtggccatc aagaacaccg agattgcgaa gcacctgtct 60

cttccaccag tgaagctcca ctgcagcatg ctcgctgagg acgcaatcaa ggccgccgtg 120

aaggattacg aggcaaagaa agggaagaag atggccaatg cagaggagca ggacacccca 180

tgcccgtaag agcgacagct agtaaactga agcgagcaga gagtactgta tgtagtatgt 240

aacggctaac gagcgaggta ctcgtgtcgt gtgtgccaaa aagaagcatg tatgtaatgt 300

<210> 40368
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F7

<400> 40368

cggacgcgtg ggccaatcca tacgtactcc ccgtgttttt tttcctgtgc agttgttgtg 60

gtcgaggcgg caagcggcag cggtgaccca cagaggagga ggcggcaagc gcggcgatcg 120

atcgaagagg aggcaacgac gtttgaagag gcggtggcgg gcgatgtgat gctttcggaa 180

gggatgctgc tgtttctcgt caggactgta cattacggga tgtctccttc gacgggagga 240

<210> 40369
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F8

<400> 40369

gacgctagtt tgtgccccgc tgatagcaga ggcaaagaag aagagagtcg ccgccgccgc 60

cgccgaggag aagaaggtgc aggacaactt ctgctcgacg ctgtgcgagg gcaggaaggg 120

gatggacctg gtggtgtgca aggagtcctg cgacctctca cagcgctcca acctggtgct 180

gtacggccgg atccagtgca agggcaagtg caccgagcag aagggcatca ccgcgccgca 240

gatgaaagtg tgccaagagg cgtgcgacaa ggac 274

<210> 40370
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F9

<400> 40370

gcaccgcacg gagagcaagc aagaaagcaa ccaccgcact gccactacct aacagtggcc 60

cgcgcctacg tgtttctcgt cgtgctcctc ctggccgctg tcatcgtggc accgttcgcg 120

ggagcgacgc gtgtcgacgt cgttgagggc aggtccatgg cgtccgtcga cgcgccggag 180

gccgtcgcac catcacccgg gcctgactcc gcctcgtcac cggactcctc gtcggatgcg 240

ccctacagca 250

<210> 40371
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G1

<400> 40371

ctccgctggg ccaccagctt tgaccgccgc ctcccttccc ctccgctact gctcctcctc 60

agcccactcc cccgcaggag cggcggcggc ggcggcgagg tcgtacccca catcggcgag 120

cggcggcggc accgccggag gcaaaggcaa gatgttcggg cgcgcgccga agaagagcga 180

caacaccaag tactacgaga tcctcggggt gcccaagtcg gcgtcccagg acgatctcaa 240

gaaagcctac cgcaaggctg ctatcaagaa ccaccccgac aagg 284

<210> 40372
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G10

<400> 40372

ccttgaagag acctttggcg ccgacgatgg ggcgcgaggt ccctggcaac gcactgatgt 60

tcggcgtgta cgaaggcact aagcagtacc tggccggtgg cccggacacg tacgtccttg 120

gcaggggcgt ccacgtcctt gcaggcggtc 150

<210> 40373
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G2

<400> 40373

cccacgcgtg cgtggacgcg aaggtgaacg acaatgtcgt ctacatcgac ctggactacg 60

agacggagat ggacactgct taggccaggt atagttttga gaagagctac gagctggctg 120

acagacatgt gattaacatc ggtgcttagc gctagggctt ctctgaggta ctct 174

<210> 40374
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E6

<400> 40374

atcacgacaa gatggcgtgc acaaacaatg cgatgagagc cttgttcctc ctggtcctct 60

tctgcatcgt gcatggtgag aaggaagagt caaagggcat cgatgcgaaa gcgtccgggc 120

ctggtgggtc cttcgacatc accaagttgg gcgcctccgg caatggcaag acagacagca 180

cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg cactgggaag cagacaatcc 240

tcatacccaa gggtgac 257

<210> 40375
<211> 289
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-044-Q1-K1-G4

<400> 40375

ctgaagcgtg cagacttgga ccactttgtg gcctccgacg acgactcgcc gcactcctca 60

tcagactccc cgacggcgga ctgctcttca cctgccgagg cagcggcggc tcacgctcac 120

gtctatcacc agcagcagca agaggagcag cagaatgggg gcaagcacaa aggcagctgg 180

gctcgaggac gagctggcac ggcgaccaag ctgcacatca cggcgccgca gagcccccag 240

tcggctcccg cgggcatggc cggcggncac ttcgacccga ccagccccc 289

<210> 40376
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G5

<400> 40376

agcaaacctg cagtcatctc ctccaccacc accaccaagc tcaacaacag ccagctcgcg 60

aaaataatga agagccgcag catggcatca tcggccgcgc tcttggtgct agccctcgcg 120

ctagtggcgg ccaccgcccc acaggtagcg gaggcaaaga agaagagagc ggcggagagc 180

ggcgaggcgg cggaggcgaa gaacatccag gacgacttct gctcgacgct gtgcgagggc 240

aagaagggga cggacctggt cgcgtgcaag ga 272

<210> 40377
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G6

<400> 40377

cttgtcccag acaaggccac gaacacgctc ttcatcatcg acagcggctt tcgcatgacc 60

aggtgcgacc ttggcaacaa ccgtgcgacc atcgccaggt ccgggacgaa ggagttcatg 120

gaagcccttg ctgccggcgc tgatgtgtcc atgattggcc agttcggcgt cggcttctac 180

tgtgcctacc tcgtggccga tagagttgtg ccgaccacca agcacaacta tg 232

<210> 40378
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G7

<400> 40378

ggctgggtat ggagtggctt tggcagtaaa agatatctac gctgatgcct ttggagaaag 60

aaatttgggc tctaacgctt gtgggcctga tggtaaagga tggacgacaa ggaaaggtga 120

atgccaaagg ttactacatt tatgagaagg gtgcgaagcc aaagccagac cctagtgtta 180

agcatgtgat cgaggagtac cgaaagcagg caaacacaat gcctggtgga aagcctgtta 240

ctttaatgga tcaagatatt ttggagatga ttttc 275

<210> 40379
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C2

<400> 40379

atcggtcaaa gacaaaagat gattgctgtg agcatcatgt ggtcattagt gcacgtgcag 60

gtgctggcgg cgatggcact agcatttctg gtaggcggtg cctggtgtgg tcctcccaag 120

gttccccccgg gtaagaacat cacagccaac tatggtagtg attggctaga tgccaaggca 180

acatggtatg gcaagccaac aggtgccggc ccggacgaca atggtggcgg atgtgggtac 240

aaagacgtga acaaggcccc ttttaac 267

<210> 40380
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C3

<400> 40380

agacaaaaca tggctgtgaa tgtgagaacc atgtggtcgt cgatgcgggc acaggttgcg 60

atggttgtgg cgttggtgtt cttggtgagc ggcgcatggt gcggtcctcc caaagtcccc 120

ccaggcaaga acatcacggc cacctatggc aaggactggc tggacgctaa agcgacatgg 180

tatggcaagc cgacgggtgc cggtcccgac gataacggag gcgggtgggg gtacaaagac 240

gtgaacaagc ccccttcaa tagcatgggc gcatgcggca acattcccat ctttaaagat 300

ggtctggggt gggg 314

<210> 40381
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C4

<400> 40381

cccacgcgtc cgaaacgtca gtcatgttat ccacgagctc tcatttggcc caaagtatcc 60

aggaattgac aacccactgg atgatacttc aaggatactt catgacacaa gtggaacctt 120

caaatactat atcaaggttg ttccgactga gtacaaatat ctgtcaaaga aaatattgcc 180

aacaaatcag tattctgtca cggagtattt tcttaccatt cgcccaactg aaagggcctg 240

gccagcggtt tacttcctgt atgatctctc accaattaca gtca 284

<210> 40382
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C5

<400> 40382

gatcctcaac aacgaggagt gcttcatcct gaagctggag gctggcgccg cgacgctgcg 60

ggcgcggagc gctccggcgt tcgacatcat ccaccacacg gtttggggct acttcagcca 120

gcgcacgggg ctgctcattc agc 143

<210> 40383
<211> 220
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-044-Q1-K1-C6

<400> 40383

tcgatttcga atttcaccca gctccgcacg cgcctcaacc ctttctctcn ggcggcggcg 60

ccggcaaggc ggcagccaac cggagcggga gctgcgatga agaagatctt cggcgccaag 120

aaggacaagg ggccgccccc ctccattcag gacgccaccg agcgaataaa caaacggggt 180

gagacggtgg acgagaagat caagaagctg gacgaggagc 220

<210> 40384
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C7

<400> 40384

catgaaccct gaaaagtatg ccgaagcaga atctgagttt cgagagttga aagcagacag 60

tgaggaggct actaagaagt ttgaacacat agttagacta atgaatgaag agcttgctcg 120

tttccaggag caaaagacag ctgatattgg actcgcattc catgaatttg ccaagggtca 180

ggctaagcta gctaaagaca ttgcggatgc atggcgcagc gtcctcccaa agctcgaagc 240

ttgttccaca tcataaatgt gatttgtgtt tcctcatgat gtttgggaat gggatagggg 300

ggtggcaact tgtgagttta ggctttttt ttccagcctg gtttgacaac tgatact 357

<210> 40385
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C8

<400> 40385

cggacgcgtg ggtgagagga catgggagca taggagtgct gttggtggga cctgattgct 60

accgagtgtc cagaaaggtt tgcagaattt cagttggagt caggctcgtg ggctgaattc 120

ccatcagcag aagtttggca acggtgtgtt gattgtgagc aataatgagg gtgcacaccg 180

caacaacgga gcagtggaca gccctagcgc agcgcagttt cagcttcaaa ag 232

<210> 40386
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C9

<400> 40386

cacccttcct gctccggcct ctggctcgga cacctgcgct cgccctcgtg cggacggagc 60

cgacagcggc aacgacggat gccgggcttc gccggcctct caatgcagca gcagtcggag 120

cctgccgatc cggcgggccg ggccttaccg ccaccggcgg tgccggcgcc ggcgccttgt 180

gtcgcgcgcg cggtgcacca ccgccgggct agatctg 217

<210> 40387
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D1

<400> 40387

gacgacgacg acgaaagtgg tgaggacgtt gactgacagt ggtggcgttt gagaattcag 60

gtgtggatac cccgcaagat gatggataac cgcgttcgag tgttcaagta ttgatatgga 120

taccgcaaga agttactagg agagatgctg cagccttttg ggttt 165

<210> 40388
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D10

<400> 40388

atgagccgct tgaggacggg cgcacgctgg ccgactacaa catccagaag gagagcaccc 60

tccacttggt gctgcgcctc aggggaggca tgcacatctt cgtgaagacc ctgactggca 120

agactatcac cctcgaggtg gagtcttcag acaccatcga caacgtcaag gccaagatcc 180

aggacaagga gggcatccca ccggaccagc agcgtttgat cttcgctggc aagcagctgg 240

aagatggccg cacccttgcg gattacaaca tccaaaagga gagcaccctt caccttgtgc 300

ttccgtttaa gggtggcatg cagatctttg tgaagacact tactggcaag acaa 354

<210> 40389
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D2

<400> 40389

accacgaacg ctgttgtgtc atggagtgcc gccaacaata gctttgtttt gggatcctca 60

tatctttggc acggtgctgc tgccaaggta cttcaagcac aacaacttct ccagctttgt 120

tcggcagctc aatacttatg gcttcagaaa ggtggatcct gacagatggg aatttgctaa 180

tgaggagttt ctgagaggtc agaggcacct cctcaaaaac attaagcgtc ggaaacctcc 240

acactca 247

<210> 40390
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D3

<400> 40390

aatttacctg tgaagcaatc ttttcatatt ctgcatgaac aggggattcc tgtagctcct 60

ctctgggact cattcagagg tcaatttgtc ggccttctga gcccattgga tttcatactt 120

atattgcggg agctagaaac tcatggctcg aacttgacag aagatcagct tgaaacacac 180

actatatctg catggaaaga ggctaagcgg caaacttgtg gaagaaatga tggtcagtgg 240

cgagcacatc agcatctagt gcatgccacc ccttatgagt ccttgaggga cattgcagta 300

aagcttttgg taaatgacat ttttac 326

<210> 40391

<211> 221
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-044-Q1-K1-D4

<400> 40391

cccacgcgtn cgcccacgcg ttcgaatttc tctgtcttaa gcacctgatc gttcgcttgt 60

cattaggaac aaccattacc caggcatttg actatttctc tttggtttct ttccttgatg 120

cgtctccttc cttggagact tttatattaa atgtaaggtg ttggcactgt caattcattc 180

ggtcctgtaa attcatctta ccattctgtc catttagctt a 221

<210> 40392
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D6

<400> 40392

gttctctcgg gcatgcgagc gtggcggcgg ttccctcggg cgtgcaagcg gtggtgatcc 60

cgagggccaa cggcggtgcc gccctgaggc aggcgacagg cggtggcgtt ccaccgggat 120

caagcgacgg tgacgctccc ggggcatgcg ggcaagcatc atcgtcgctc ccgaatcgga 180

cgagttgcag cggcgcaccc cagacccagc ggcaa 215

<210> 40393
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D9

<400> 40393

aatgtgagag gcactcacat ggttaagcaa aattaaaggc gcagtttgtg ttaccaaatg 60

caagaaagaa agtaaagaaa gcgctggcaa gtgatgatga gactaaaagt gctgataaaa 120

gtccactata tcaagagtct gccgattgta gtttagcgac atcttctaat gatggtggta 180

atggaagttc tagtgtgaat atgctacata agactaagat catgacgcac ctgaaaagcg 240

taagaccacg ttcatggaga taggatacaa ggcctacaac aagcgtattg gac 293

<210> 40394
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E1

<400> 40394

ccatcccctc ggctttgtgg ccaagccggc gatgctgccg gatggttctg tcaatctcat 60

gctctggaac tgcgtcgtcc ccggcaagga aggcactgat tgggaaggtg gatatttccc 120

ggtcactctc catttcactg aaaattaccc aagtaacccc ccaacctgca agttcccacg 180

aaggtttttc catgtcaatg tctatgattc tggggatgta tgcctgtcaa tacttgggga 240

tgcatgg 247

<210> 40395
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-044-Q1-K1-E10

<400> 40395

acatcttaca gcattatgtt tggaccagat atctgtgggt acagcaccaa gaaggttcac 60

actatcctga ccaaggatgg caagaaccac ttgatcaaga aggatgtgcc ttgtgagact 120

gatcagttga ctcatgttta cactttgatc atccgtcctg atgcaacata cagcattctc 180

attgataatg aagagaagca aactggcagc atctacgagc actgngatat tcttccccta 240

agaaaatcag gacccagagg ctaagaagcc tgaggactgg gatgacaagg agtacattcc 300

tg 302

<210> 40396
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C12

<400> 40396

cgtccagaag cggttcaaag ctgaccccgg caccgccgcc ggcctcctcc gcctcgtctt 60

ccacgactgc ttcgcaaacg gctgcgacgc gtccatcctg atcgacccga tgtcgaacca 120

ggcctccgag aaggaggccg gccccaacgt ctccgtgaag ggctacgacg tgatcgagga 180

gatcaagacc gagctggaga agaagtgccc gaacgtggtg tcgtgcgcgg acatcatctc 240

cgtgagcgcc cgcgactcgg tgaaactgac gggcgggccc gagta 285

<210> 40397
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E11

<400> 40397

cccacgcgta cgcccacgcg tccgcccacg cgtgcggtgg acggagatga agcgcaactg 60

ggggcaagtg tggcagaccg gggaggacct tacctgcgag tagctgacgt tacgggtgat 120

gaccagcgac caccgtaagg ccacctcatg gcacgttctt cccgctgact ggaagttagg 180

tgtcacgtac cacgcatgca acaacttgta acatttgaga acaagtttcc aacattggcg 240

cccaccttta gtgaacttac ttccacttgt gatctgatgg ctatgttcaa caaccaacgt 300

gtagc 305

<210> 40398
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-044-Q1-K1-E12

<400> 40398

cctcttagcc aacctattag ctgtccaaca cctatttagg gctgcgagcc agaggaagaa 60

gtggcatttg gagggggccc aagttcccca aatcttttca tagtgtccga aggagacaga 120

accagtaaac aatccttcat aggcagcttt agctgaataa accccattag cagcaatact 180

gaaaatatga ttatcctcca cattgggatg caacacaaat tctgaaagca gattccaaag 240

gtgaagataa tccattaaga ccccaacaga tattactttc attaccttgg aagtataatt 300

agtgggtgca tggattatgc tctnttgagg tttaagctaa actattgtta ttgataaaat 360

aagttaaacc aaaatattgt actagcatga gtcatggtta ataacatttc tttttt 416

<210> 40399
<211> 112
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E3

<400> 40399

ctactacgta ccacggtacg gataatgggt acgtagctac atgaagctgt ctacggataa 60

tgccgtccat ttactcccct cacatgtttt aaattttagt ttcgcttctt tc 112

<210> 40400
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E4

<400> 40400

gtgtagggtt ctctgatcat tcgttcgcca cctcggccca agacgtctcg ctagggtttc 60

gccacagccg ccgccatgcc ttgccgcaag cttaggaagg tccgcggctg acgcccggct 120

ccacatgctg gtccagtgag gaacccacca cagcctgcgc gctaggctcg ttctacagct 180

actgttcgtg atggtggtgg tggctccatt cttggaggaa ttgggt 226

<210> 40401
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E5

<400> 40401

agggcatccc tccagaccag cagcggctca tctttgctgg gaagcagctt gaggacgggc 60

gcacgcttgc cgactacaac atgcagaagg agagcaccct ccacttggtg ctgcgcctca 120

ggggaggcat gcacatcttc gtgaagaccc tgaccggcaa aactatcacc ctcgaggtgg 180

agtcttcaga caccatcgac aacgtcaagg ccaagatcca ggacaaggag ggcattcccc 240

c 241

<210> 40402
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A2

<400> 40402

cacgcgtccg ggtgatgaaa gctgtatcgg acttcaaaca tatttctcag ccactttcaa 60

ggttcgaaga tgatttggaa tcaaacagag ccgtgagaga tcaaggctgg ggttcaccgc 120

agcttgagca aaatataact cgcttggaga aaattgtcga aattttatca caggacaaat 180

tctgttatga agctcacata ctacgggatg gtgcattcct tcaacgagca ttatctttct 240

acaggttaat gatactctgg tcagttaacc tagttggcgg atttaagatg cctttgccat 300

cacaatgtcc caag 314

<210> 40403
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A3

<400> 40403

ctgctgggga ctggaccagg gacagggagc aacaaagctg agtcctcctc ctccatggcg 60

gtacggtggc ggccgacgtt tacaaaggcg agctgacgcc gctgcagcgg cacgtcgcct 120

tcttcgaccg gaacaaggac ggcgtcatct accccgccga gacataccaa gggttccgcg 180

cgatcggggc cggcgtcacg ttgtctgcct tcagctccgt cttcatcaac ggcctccttg 240

gacccaagac cataccggta tatatgcatg gcattggcat ctctcccccc tcaacaggca 300

acaccctcag cgaca 315

<210> 40404
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A4

<400> 40404

ccgaaagtgg tctgggagta ctgtcaggat tgtcaaacct atcttcttta agcttcaagc 60

gaagtaatgc tgttactgct gaaggaatga gagcctttgc aaatttagtt aacttactaa 120

atctcgacct tgaaggttgc ctaaagattc atggtggcct tattcattta aaagatctga 180

caaagctcga gtcattgaat atgagatatt gcaattatat tgcggattca gatatcaaat 240

atttaacaga tctgacaaat tt 262

<210> 40405
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A5

<400> 40405

ggccgtcgag cgagcagtct cccaattcca cccaataact aataacatct cctcgaacgc 60

caggttcctt ggaccactat atccaggagc gacgaagtga tccacccgcc agccatggag 120

atgaagaagg tcctctgcgc cgccctcgtc gccgccgcct cggccaccgc cgtgctggcc 180

tcggtcgcct ccgaggcgcc ctccgaggcg cccgccggcg cggccggtgg tgcggctggc 240

cctagcgcaa 250

<210> 40406
<211> 245
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-044-Q1-K1-A6

<400> 40406

cgcacgcatg atggctccta ccacctcctt gctcgcgctc gtgttcctct tnctcctgcc 60

cgccgccgcc gtngncgncc cacccgctac cggcgacgct gccgccttca acgtgacgga 120

gatcctcagc cggtacccgg agttcaagct cttcaacctc ctcctcagca agacccgcgt 180

cgcgcgcgag gtgaaccgcc ggagcgccgt caccgtgctg gtcccggaca actcggccgt 240

ggact 245

<210> 40407

<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A7

<400> 40407

ccacgcgatc ggagttgtgc gtgccttaca acgagattca gagcccgagc ccgagcccca 60

gccccagacc aacgacgaga aaggacaatc tgcggcggac ctacccgaag tcggaggcag 120

ggcaaaaggc ccgatccccc ctccccgccg gttgccgcgc tcgtgccacg gtgcgctagc 180

cccgtcgacg ccggcggaca gcgtgcacta tgggttgctc ctcctccgtg ccagctagaa 240

atactggagg gctgaacact atcagcaacg atagctctcc agacgccagt tcaaaggact 300

tgcgtgctaa gttggtattg ctgggagact cacgtgttgg gaaaagttgc a 351

<210> 40408
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B10

<400> 40408

aaagagtttc tgaggcaatc aagagttgtt cgagtacgtc taattcagaa ctcaagtgct 60

gttcccacta cttgtcactt tgctgaccaa aagaaggcaa tcatggacaa aataaaacct 120

ctaattgatg cagccggcgc ttctggtgtc aatattatgt gcttacaaga agcctggaca 180

atgccttttg ccttctgcac acgcgagaaa agatggtgtg aatttgctga accagctgat 240

ggagaatcta c 251

<210> 40409
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B12

<400> 40409

gaaataattg ggaataaata gttcgtgaat ccctgaagcg tgcatatata tattcctgcc 60

aagataaagg taatggagtc gtcacgcagg ttccagccgg ccgtcatcct gcttctcctg 120

ctcattgtgt ccaccgatat ggcacaggca agggaatgcg agaagtacag tgagcgattt 180

gttggggcat gcatgatcgc agacaactgc gccaatgtgt g 221

<210> 40410
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B2

<400> 40410

cgagatccag tccggcgttg aggaagctga atcgctgatt cggaagatgg acctggaggc 60

aaggagccta cagcctagca ttaaggctgg tttgcttgca aagctgaggg agtataaatc 120

tgacctcaac aacgtcaaga gtgagctcaa gaggatatct gcgcccaatg ccaggcaggc 180

tacccgggag gagctcctgg agtctggaat ggctgatact ctcgcggtgt ctactgatca 240

gaggggaaga ttgatgatga caactg 266

<210> 40411
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B3

<400> 40411

ggctagagga gaatgcagag gagcgtgagc gcgtcacagc gagtggagga gaggtcagcc 60

ggcttaatct ctgtggtgga caggaggtgg gtcctctccg atgctggcca ggtggattgt 120

gcctttcaag gtcaattggg gatactgatg tcggcgagtt catcgtaccg attccacatg 180

tcaagcaagt gaagctccca aatactggtg gaagactaat aattgcatca gatggaatat 240

gggacgc 247

<210> 40412
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B4

<400> 40412

attcaagcac ctgctcttgc cccgccaggc aacaactcag ccgccgcaac cgccacatca 60

ggcatgggcg cctgcgcaac caagcccaag acgcttgagg ggcaggcccc acctgaggcc 120

gccgtctaca cacccaaggg tgcgcccgag gtcactccaa tctccgatga ggttgcggct 180

gatgaacagg tagctgagaa cgtggtggtg gagg 214

<210> 40413
<211> 291
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-044-Q1-K1-B5

<400> 40413

cccacgcgtn cggacgccgc cgcccaaaga aagacgtcaa ctccaggaga caagatagtg 60

agaactgaag agaaggatgg gcttcgagaa gcacatcctg agatccggca ccggccccaa 120

gccgataaag ggccagaagg tcaccgttca ctgcaccggc tacgggaagg atcgtgatct 180

gtccaagaaa ttttggagca ccaaggaccc tgggcagcag ccattcagtt tcagcattgg 240

tcagggttca gtgatcaaaa gatgggacga gggagttatg accatgcaag t 291

<210> 40414
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B6

<400> 40414

ccgtaagcaa catcggtgag tgaaggctgg ctggcgccct cgtaatgacg acggtctgat 60

cctcacccga tgaacatgag tagattcaat atcataccat ttgtttgtgt agggaatcga 120

aggctgtcgc gtaagacagt tcggctaggc cggatgacct gacggcttga cgaagagttg 180

gtgcagatcc gatcccgtag caacatcgag aaagagcgtg ctg 223

<210> 40415
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A12

<400> 40415

gaggagaacc agcagcctcc aatattagtc tttcagagaa actaataaaa ctctggccgc 60

cgccattcga gcgaacgagc caaccgatcc cgttctcaag gcaatccgcc gccgacgtac 120

caccaccacc gcatgatcga gatggaaatg aagaggatcc tttttgccga tcttgttgtt 180

atcatcgcct ttttcacctc aatgcttgcc ttcatctaag cctcccttac tggtccccca 240

actttttttc tatttgaatg atttgcttta ttttgttttt gcttttaatt ttatcttttt 300

ttctttctct tttgttcctt ttcttttatt agtgttaaat attttttatt attttttttat 360

agcatctata ttttttttttt attctatttt taaaattatg gtctatcttt tatattatat 420

cttctttata atatttatat ttttttagtt ttttcttttt ta 462

<210> 40416
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-044-Q1-K1-B7

<400> 40416

cagaaagcaa acgcaaacaa gaagcaaacc agcaatggcc cgcgcctgcg tcttcctcgt 60

cgtgctcctc ctagccgccg tcgccatggc gccgttcgcg ggcgcggcgc gcatcgacgt 120

cgtcgagggc aggtccatgg cgtccgcgga cgcaccggag gccgncgncg acgctcccgc 180

tcctgctcct ggccccgact cctcctcgac cccgtcgccg gcaccctcca gcagcagc 238

<210> 40417
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B8

<400> 40417

gtggagcccg acgcacctgt ggttctccac ctgggcgttc ctcctggggt cgctggccgc 60

ctacgtggcg ctctgcctgg ccctggacgt ggcgctggcc ctggccgcgc agcgcctgcg 120

ccggcgcctg gcggttccgc tgggccccgt gcccgcggcg cacgcgctgc tgatggccgg 180

cgcgtcgtcc gccatcttcg cggggacgct gctgtcggcg gtggcggaga tacgggacac 240

gc 242

<210> 40418
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B9

<400> 40418

cagcatttcg agtaacacag ttgagcacga cgatgggatc cctcgctaat aacatcatgg 60

tcgtgggcgc cgtccttgcg gcgcttgtcg tcggcgggtc gtgcgggccc ccgaaggtgc 120

cgcccggccc caacatcacc accaactaca acggcaagtg gctcaccgtc agggccacct 180

ggtacggtca gcccaacggt gccggcgctc ctgacaacgg cggtgcgtgc gggatcaaga 240

acgtgaa 247

<210> 40419
<211> 223
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-044-Q1-K1-C1

<400> 40419

gttacatgat gtcttgcctg gatttttggc aggcctgtta atttatgctt cactgttagt 60

gccttgttgc cagcaccaga tgtttctgtg tgtgtgtggt ggtggtttct gtacatgaaa 120

gccttttgac tggagaacca accatggcta gtttaattat gaagttcact tgttgtaccc 180

atggnangat aaactagcta aagacattgc agatgcatgg cgc 223

<210> 40420
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C10

<400> 40420

gagggcccga ctggcacgtg gacgctcgac accaaggccc cactcaagta ccccctttgc 60

atccgctttg ctgtcaagtc tggcggctac cgcatcgccg acgacgtcat ccccgccgat 120

ttcaaggctg gcaccaccta taagaccaca ctcagcatct aatcaacctc tcatgatgaa 180

atatatttca aaagagctca cctagcgcat tgtgtacaag acaatattat ttttttcatg 240

ggctttttt 250

<210> 40421
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C11

<400> 40421

ccaagctcta catcatgccc aacctcgtct tctacaacat cgtgctcatg gaccttgtcg 60

tcatcggtga cttctactct atgctgaatt gagtgaaggc cagatgctac tatgtacacg 120

gtgctcatag atggtattgc caccgtagga agttgcaaga tgcagcaagg atcatggatg 180

agatggaaac cgctggggtg cagccaaatg aggattcata c 221

<210> 40422
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G6

<400> 40422

accacgcgtc cgcgccggca aacagctgga ggatggccgc accttagcag actacaacat 60

ccaacaggag agcaccctac accttgtgct ccgtctccga ggtggtcagt aagtcatggg 120

tcgtttaagc tgccgatgtg cctgcgtcgt ctggtgccct ctccatatgg aggttgtcaa 180

agtatctgct gttcgtgtca tgagtcgtgt aactattgct ttaataatgg accggttgtg 240

ttgtgtgtgc gtactaccca gaactatgac aaatcatgaa ttagttctct ctttgaaatc 300

gaaa 304

<210> 40423
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G9

<400> 40423

acaacccgaa agctgacgcc accgctctcc tgacaacgat ccaacgtcac ccaacccacc 60

ggtgctcccc ccaaaaccca ccacaaggct tgcccaaggc ttcccctcaa ccatgccaca 120

ctcgcgccct tcaccgaccc catacccgcg ggcatgatcc gctgcgatgg aggactcgtt 180

gccatcgtcc gtcgcacctg accctaccac ttcccctgca ccttgcacgc ccccgtcccc 240

gaacccgcac c 251

<210> 40424
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H1

<400> 40424

cgcagccacc ggtcctctcc tctcgtcgct tcttccgtct ctcggcgtcg aatctcatcc 60

ggccagtgac cacactctac tagccgcccg gaaggagttc ttccgggatt cgagccttgc 120

tgccctcacc tctgcaggcc cagcgtcgag cggagatcca atcggaaatt caactgactt 180

cgtcttttgt cgcatccccg tcaggagaag caatgtcagg agtgatcaca aagttcgcgg 240

ttacatccat ggtgatgtgg atggcccctg atgcgatcat gtatgggttt tactaccagg 300

tgtttccagg tgtgagtcag atgtcatcct ccgcgcatac acttgccagt gggttcctgg 360

cttgcatatc gggtaatcta gggat 385

<210> 40425
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H10

<400> 40425

ctagcttgct cttatccgcc tgcagtccat ggccaccgtc agtctcgcgc tctcgctgcg 60

attcgcgccg tcgtcgcgac cgctgagtct ccaccgcagg aggcccgacg ccgtgacctg 120

ccgcgcgacc accaccacgt tccaccggct cgacgccgtc gcagtgagag aggaagagtc 180

taaatttcgg agggccgcgg cggagggctg taacttggtg ccgatcacga gaagcatttt 240

ctctgatcat cttactccgg tgctcgcgta ccgttgccta gtcaaagaag atgatcgtga 300

ggcgcctagc tttctgttcg aatccgatga acaaggctca gatagtacat atatgggaag 360

<210> 40426
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-043-Q1-K1-H12

<400> 40426

cgcagcgtca attcagcctg gcaggagctc acaggcatcg gcgagcgtgc gctattcgta 60

gattcccacc acgggttcgc agtgccgacg gcggggtttg gcaatctcga gagcaacaca 120

atctattcag tgagcagcaa gaaggtgaac tacagcgttt cggcatttag cctggagacc 180

cgtacctcga agaaacttgc gtgccgcctc aacgaccagg agatggcgat gcgtggtgag 240

atgccatcgt ggatcgtacc aagattggat gaagtctgaa tctgcagggt tgggagattc 300

atcattgttg tgcaatcact gttgatatat ggttctaggt aatttcttcg gtatccttgc 360

agttcgaacc agcaataatc cctatataag ttcactcctg tnaattcttg attctgtcgt 420

tt 422

<210> 40427
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H3

<400> 40427

ccagacgcta gacacgccac cgcatcgtct gcgccgcgag atcgagaatg tccatctcta 60

tgccgatcgc gatccctgct cctgccgtca ccgtcggcgc gccgacgcgg ctgacggtgc 120

gagcggcagc ggaggtgaac cgcggctctc tctccgtcgc gcgcgccgtc gaacgggcgg 180

agacgggcgc gctcagggga tgcgcctggc tgccaccgaa accgctggga gcgggccagc 240

cgtaccggat catgggggcc gacgacgtgt gtgactcgtc ggcgcacctc aacgcgcgca 300

ccatacagtg gatctacgac agagccagcg cagcgctatc agttgctaaa ggcactgcca 360

tacacatatc tttacttgtg ccattatttg ctcttcaggc accttgcagc at 412

<210> 40428
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H4

<400> 40428

ggtaccgatt ccaattcgac ctacgcgtac gcgtccgctc cggtccgtca ccccaccata 60

ctcgtacaga accaacgaat atgtgtagcg ccacatacgc agtcctattg tacgtactcg 120

ccggacatgg cctcatagat ggcgctgaac aagattaggg accaaaagga gctagtcatg 180

acaaggtaca ctacgtgtat ccggatgtag gcaggggtat aattcatgca tacgcacctt 240

actctggtac cgctagaact gtcgccgctt aaggacctca ggccaccttc agccgccacg 300

atgccgctgc cgcatctgct gctgcaccta agaag 335

<210> 40429
<211> 137
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H5

<400> 40429

gtgacgcgta gccaccggtc tgcacttgag ctaatacgtc ggacgtgtgc agggcaccta 60

ctgacgaccg cgagagcaca atgtgggact atcataaggc gaattatcgg ccggactaac 120

ttaggcaggc taccgcg 137

<210> 40430
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H6

<400> 40430

caaaggcaaa gggcaaagca gaagttgcgg ttggcctcgt cctcctcttc tccgtcgcgg 60

ctcacatctc tgcgtgcgtc gatggcgtcg ttctcggagg ctccccccgg gaacccgaaa 120

gccggcgaga agatctttaa gaccaagtgc gcgcagtgcc acacggtcga caagggcgcc 180

ggccacaagc aaggtccaaa cttgaacggt ctttttggga gacagtcggg taccactgca 240

ggctactcct actctgcggg aaacaaaaac aaggctgtag tctgggaaga agacactttg 300

tatgagtacc tgcttaaccc taaaaagtac attcctggaa ccaagatggt cttccctggg 360

ctgaagaagc cgcaggagcg tgctgatctc attgcgtacc ctaatgaagc aactgcatag 420

ctcattgaca tgccttt 437

<210> 40431
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-043-Q1-K1-H8

<400> 40431

ctcccctccg tcaccccacc acatccggcc agcccaacga aaatgtcgcg cgccacagct 60

gcggtcctct tctacatcct cgccgtcgct gccctcagcg cggccgaggc accggcagag 120

tcaccgaagg caggcagtcc tgccaaggca ccggccgagt caccgaaggc aggcagtcct 180

gcagctcctg ccaaggcacc cgagtctgct gccacgagaa ctgcccccgc taaggcacct 240

caagccgcct ccacccccgc cgctgccgct gccccatcgt cgtcgtcgtc taggaagtct 300

ggtccagctg ccgcgccgac caccgncgtc tctacaccgt cttcttccac ggacgaggag 360

ttgagccctt cgccgtcggc atccaccgnc gaggtggcgt cccctgccgc tgatgggcct 420

gctgagggac ccgc 434

<210> 40432
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H9

<400> 40432

cggaggagtg cgtgcgtggt cggctgccgc tcgcgcacgg tgtaggaggc ggtgccgagg 60

ccacgtggcg ggtcttgggg acgagctccg ttagcttgaa gcggtgctcg ggaagatggc 120

gccggccaat ggccgtaccg tgctgatctt ccgtgtgccg tgcgggtgcc cataagagag 180

gatggaggtc tggggcgcta agaaaaggtg cgccggatga agacgtatgg aggccatgaa 240

aaacaaacag ctgatggctc cttatctatt atctaatgac agacatccta aacaactcat 300

agctgagtta ctttcgcata gcgttactag gagatgacta ctaactacta gggcggtggc 360

tgtttggaga aattgctctc attcatatag ccctattgga ctagtgga 408

<210> 40433
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A10

<400> 40433

cccacgcgtc cgcgtctcac tcaccccgcc ttcacgcctc cctcaccaaa taagggcccg 60

ccctttccg acattcacag gggggacagg aaatcagcgg ccatggcctc gattccggcg 120

acgaccttcg ccgtcatctt atccgtcctc ttctgtgccg cggctggcac cgccgtcgac 180

aacgacctcc ccgactacgt catccagggc cgcgtctact gcgacacctg ccgcgccggg 240

ttcgtgacca atgtcaccga gtacattgcg ggcgccaagg tgaagctgga gtgc 294

<210> 40434
<211> 299
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-044-Q1-K1-A11

<400> 40434

cgcctcccct ggcagattcg ccaatcacaa tcgagcttcc agttggagga gatcggctac 60

gtttcctgta ggttccaatg gtgcagcttc cgggctccaa gaagcggcac gccgagatgg 120

ccacggcggc gaccgtgaaa gcggaagtgg agggtttggg ctgcngcgat ggttctcctc 180

acaagcatgt caagccaatt gccgagccgn cgncgcagcc gtcaccttcc gaggacttgc 240

cctttgatgt gcttgatgga cctagcccat tgggtctgcg actaagaaaa aagtcgatc 299

<210> 40435

<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G5

<400> 40435

gtcggagacc agcctccgct gcggcaaggt cgtcggactg ccaatgccgg cgtcctacct 60

ctccgtctag agcatgcatc tgggtttccc cttgcttcct tccatcacac gtgcgcacgg 120

tgctgtatac acactttaaa ggagcgtgag ggcacatgct tatgtcgata gctacctatc 180

tagctataat gtgccaagct agcatcgacc tgctctgtca gcatcgtgga gctgtcaata 240

cccgcttaca cggaatcata atgacccaaa ggggctcagg tctatgtcaa gaagacttca 300

ttcatgtggg caccagcagt cactcactgc caggggcgga cgaccagaga cattaagagg 360

cgatcgtccg ctgcaatgca tgcatgcgga tatatgcatg cgtaaacaca tcgagacgcc 420

gtaa 424

<210> 40436
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E8

<400> 40436

gagccatgcg gtgcttgccc tccaggaggc tgctgaggca taccttgttg gcctgtttga 60

ggacaccaac ctgtgcgcca tccatgctaa gcgtgtgacc atcatgccaa aggacattca 120

gctggcaagg aggatccgcg gcgagagggc ctaatcgcca cctcaaacat cgtgacaaaa 180

acatgaagtc ctggggttat tgttaatctg gtgccattgt aaggacatat gagtagggtt 240

tgttttgtgg atcgcaagtt tctcttctgc tactgttgct gctacctttg ctggtgttat 300

tgctagggtc gaatacttaa gttaactatg cgctgacagt ctggactagc agtgttatgt 360

gcgctgctgg accttgcgcg cattgctttg gccgattttg tccgttaatg tcaaagaatg 420

gtgtttcc 428

<210> 40437
<211> 417
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E9

<400> 40437

cttaactgaa ggttgaatca gagagaagct accaccaaaa ggtcctacac attcttgatc 60

aacttgagag agaggtctga tggtttcaca tccgcatcct ttccatgctt ctccattgtg 120

ctaaagaaag tctacaactt tgagaaaaat ctggtcgatt atgttatctt gattgagctt 180

tctttttttt ttcttctaga tggtatctga gcgccaaaga atcgaaggag cacctccggt 240

ggttgagagt tccatgcctc cgccgcctgt atatgaagaa gtcaatggta tattcatgag 300

aaatacaggt gcaaaattgg tcgagactgt ggagtatttc ttggctgaag caatccagtc 360

ataccaagcc gaaagcgata ccgagctcaa cctttcaact ggtgactaca tagtggt 417

<210> 40438
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F2

<400> 40438

ggcgacgaga agtggcgagc ccgtagagcg tttttagtta gaggctactg gcggtgggcc 60

gctgcggtgg cggcggccat gagcagcgtg agcgagagca ctaccgtcag caggtggtcc 120

gagctggcca cgctgcgcgc gctggcgcgc gacgccgtgg agcaacttct gctgtcgtgg 180

tccggcacag ttgcgtgggc gtcgtcgctc gaggcgcggg ccctatgacc acctgcacgg 240

tcacggtacg acagtcaagg tgatgcacct gctgctttga ggacccaagt gaa 293

<210> 40439
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F3

<400> 40439

cgtaccgaat tgccatttcg gcctacacgt acgcgtacaa gcatgtacca cactatcgtt 60

acttcagctt caatgataac actttccgct ttgggcatcg ctacactgct gatccggtgg 120

actcaactta cgcaacatat ggacgtttaa cgcttttctc cttggctgac gacccccatg 180

atgctttctt tccatacatg ttagaatatg cttagaaacg tatt 224

<210> 40440
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F4

<400> 40440

cctcgatctt aattacaggt catagctaag caggtctgac aggatgtcgt ggcagacata 60

cgtcgatgag cacctgatgt gcgagatcga gggccaccac ctgacctccg ctgccatagt 120

cggccacgac ggcgccgttt gggcccagag caccgcattc ccacagttca agacagagga 180

gatgaccaac atcatgaagg acttcgacga gcccgggttc cttgccccga ccggcctctt 240

cctcggcccc accaagtaca tggtcatcca aggcgagccc ggcgctgtca tccgcgggaa 300

gaagggatct ggaggcataa ctgtgaagaa gacagggcaa gcgatggtgg tcggcatcta 360

cgacgagccc atgacccccg gccagtgcaa catggtggtc gagaggctcg gcgacta 417

<210> 40441
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F5

<400> 40441

gggagaagta tgaaccacac tatgattact tcactgacaa tgttaacact gtccgtggtg 60

gtcatcgcta cgctactgtt cttttgtact taactgatgt accagaagga ggggaaacgg 120

ttttcccctt ggctgaggag cccgatgatg ctaaagatgc aaccttgtca gaatgtgctc 180

agaaaggcat tgcagtgaga ccacggaaag gtgacgccct ccttttcttc aaccttaacc 240

cagacggcac caccgactcg gtgagcctcc atggtggttg cccggtcatt aaaaggcaga 300

aatggtcggc ttccaaatgg atccctgttg ccttggtcga taaggtccat tacccacagg 360

gcaactgcac cgactagaac gagagcttct cgaaatgggc tgccctaggg gagtgcataa 420

agac 424

<210> 40442
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F6

<400> 40442

tctcgatctt aattacaggt catagctaag caggtctgac aggatgtcgt ggcagacata 60

cgtcgatgag cacctgatgt gcgagatcga tggccatcac ctgacctgcg ctgccatagt 120

cggccacgac ggctccgttt gggcccatag caccgcattc ccacagttca cgacagagga 180

gatgaccaac atcatgaagg acttcgacga gcccgggttc cttgccccga ccggcctctt 240

cctcggaccc accaagtaca tggtcatcca aggcgagccc ggcgctgtca tccgcgggaa 300

gaagggatct ggaggcataa ctgtgaagaa gacagggcaa gcgatggtgg tcggcatcta 360

cgacgagccc 370

<210> 40443
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F7

<400> 40443

acacgacctg gggggttcag atcggatcgg aagcttccat aagtttccat cgggcttcgc 60

cgctcgccgg tatggcgatc cgcaaggggt cttcgtacgc cgtcgcggca cttatcgcgc 120

tcgcctctgt cgccgccgtc gcaggggagg tcttcttcca ggagaagttc gaagatggct 180

gggaaagtcg gtgggtcaag tccgagtgga agaaggatga gaacatggct ggtgaatgga 240

accacacttc gggaaaatgg aatggagatg ccgaggacaa aggtattcaa acctccgagg 300

attacaggtt ctatgccatt tcaggcgaat accctgagtt cagc 344

<210> 40444
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F8

<400> 40444

ggctaaatgt gatggtattg tgatgatgtg aactgagagt acaacggcat tctccaatgg 60

tctccaatcc aaaaaatgta atttgttttc attaaagttt gttaaattgt tcttctaatt 120

tataaggaat tataggatgt aatggcataa tgccattcta tacggtccat caagaaatga 180

atttatgatt tcaaattatt tcatcaaatc gaattattat tttttgtaca aattgttagt 240

ggaagtatca ccttgtcgac aatgtatgtc acaagtgatg ataatttgta atcattgaaa 300

tttctaatgg attgaaaatc aataatgtct tgcagagtac ttggacaagt agtttt 356

<210> 40445
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G10

<400> 40445

gttacttgga aggcactgat aataccactg ttgctgatgc tcacgagctg aaggtgatac 60

ttgagcacat cgtggagagg atatcctgca tctctgacgc tgctcgtact gatcgtccat 120

gacagatcac agattactcg tatatcgagg acgctcttgc tgctaaagca acacacacac 180

ttaagcacct tgggctcact catatatcgt gcttgtgtgc tagtgaaatc ggacacgtcg 240

aaatcgcaga atcctgtcct ttttgcgcat atcgaattca tccatatact atgaggacga 300

tgcagacatt ggtgatcctt ctcaagaagg tgctgatttc ctgaggtatg ctcatgactt 360

gccttggta 369

<210> 40446
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G2

<400> 40446

ggctaaatgc gatggtcatt gcgatgatca gatctgagat tgcagcacct tactacactg 60

cgaacatcca aaaggagagc accctccacc ttgagctccg tctgcgaggt ggtcagtaag 120

tcatgggtcg tttaatctga cgatgtgcct gcatgccatg gtgtactgtc catatggagg 180

ttgtcaaagt atctgctgtt cgtgtcatga gtcgtgtcag tgttggttta ataatggacc 240

ggttgtgttg tgtgtgcgta ctacccagaa ctatgacaaa tcatgaataa gtttgctgtt 300

tgaaattgaa aaaattgaaa atcaataatg tgttgcacag ttctt 345

<210> 40447
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G3

<400> 40447

accacgcgtt cgggagctca tgggtacgct gcactcgacg gccttggttc taggcatggg 60

tcccaaagag acgaacagcg tgggccatgg cggcttgcat gcgcaggcca gacgcatcag 120

cgacagcgcc atctaggagc tggctggcgg catctagagg ctgatagaga tcaagcggag 180

acgaatggag aagctgtaag acctgcttgt cagcatgctg gagctgtaga acctgatgga 240

cacgccttct gatgacaaaa ggggatccag ggcatggcct gcaacatcga cgcgttcgag 300

gacgagatca cggatcctgg cgcgctgtcc atggccttca tacgcaacag ggatgcggac 360

gtgatgaggc tggataacct t 381

<210> 40448
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-D12

<400> 40448

ctgcccggca cagtgctagc cctcgcaaga gcccaccgcc acagaggagc cccactcctg 60

caaagcatgc caatggaaaa gattcacctc tttcacgctg tgtttctcca ttaccgaagc 120

gtgcaacctc cggcagccct ggcagtgatg gcaaggagta aagcttgctg atttggtgat 180

gcctagaaaa cagccttctc acggagtcac gggattgcag aaccttgaga aggttgattg 240

agcacaatgg aagtagcagt ctgcactcaa ccgcgatcca aggttgctag ttcttttaat 300

ggcttataga attgtgtttt ccagttgtca aaaatatgcg ctggtttgta tttttggcat 360

atactgtgtt tttataccct tgcactgcat catctacttt atatatgcat cagtttctcg 420

<210> 40449
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-043-Q1-K1-D3

<400> 40449

atcttcgggg tgatcgatta cacagcatta tgggtcgcgt gaagctacag atcaagagga 60

tagagaacaa caccaatcgg caggtgacct tctccaagcg tcggaatggc ctcatcaaga 120

aggcctatga gctctccgtt ctatgcgaca tcgacatcgc gctcatcatg ttctcgccct 180

ccaatcgcct cagccacttc tccggcaggc gcaggatcga ggacgtgatc acgaggtaca 240

tcaatctccc ggagcacgac agaggaggag ttgttcggaa tagagagtat ctgatgaaga 300

tgctnggtaa actcatatgt gacggtaaca tagccgtaca actcacacct aattaagagc 360

caatctattt caacgtaaag gagcttcagc aggagattaa gacgtacca 409

<210> 40450
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-043-Q1-K1-D4

<400> 40450

gattgtgcag ggtctgtgag aacatcccca ttgttctttg tggtaacaag gttgatgtca 60

agaacaggca agtcaaggcc aagcaagtta cattccaccg gaagaagaac ttgcagtact 120

atgagatttc tgccaagagc aattacaact ttgagaagcc cttcctttac ctcgctagga 180

agctggcagg gtaattagat gttttgttct tttctgctgt gctaacctgg tactggtgtt 240

tatacactgc agcaaactat tgctgtgcta acttgctact ggtgtttatg tttagggatc 300

agaaccttca ctttgttgaa gctgntgctc tgaagccacc agaagtgcag attgatatgg 360

ccctgcagca gcagtaagtg ttttcagctc ttcctttgat ttctggcaca gcaaaaatta 420

gccgtgcaa 429

<210> 40451

<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-D5

<400> 40451

cttaatcgtg aaaaagtaca gtatcaacaa tgcacaggct ctcagtccta cattgcaaag 60

gcttttatat tgaagcaaga aaaatataag gacgcggaac ctagtgcaat agatcttttc 120

aaggagatgc attgtagcaa aaagaaaggt tttagtgaaa atgttcagaa agctattgtt 180

gacatggaag aaatggtagc agcaccagtt caggatggac aacaaccaaa atctcctaca 240

gaagttgttt ctaatgtgct accaggctcc agtgtgttcc tacgcaatgt tggtcttaag 300

tctgcatccc agaaaagctc cacaacgact gtttctgcaa aggttcaaca acttcaggat 360

gaactcgaga ccgagaagca agaaaaagat ggccttcggg aagaagtgga aaccttgaag 420

gctcaagcac aagc 434

<210> 40452
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-D6

<400> 40452

gcgccgagtt ccgcacgttc atcgaggcgg tcttcgagaa ccccgagaag agcatcgaca 60

ccatgcacat cgacggctac gccttcttcg ccgtcggcat ggggcccggc aaatggacgg 120

cagcgtcacg gagtacgtac aacctcctgg acacggtgag ccggcacacg atccaggtgt 180

acccaaggtc gtggacggcg gagatgatga cgttcgacag acgcggtcac gtggagctgg 240

cgctccaaca tctgggagag gcagtacctc ggcgagcagc tgaacgtgag catgattagg 300

gcggagcggt cgctcatgga cgagtacaac atgcctgaaa ccagcctac 349

<210> 40453
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-D7

<400> 40453

catcgtgaag cccctgcttt cgttgagcag gccactgagc agcaaattct tgttactgga 60

atcaaggtcg tggatcttct tgcaccctac caaagaggtg gaaaaattgg tctcttcggt 120

ggtgcaggag tgggtaaaac tgtgctcatt atggagctga tcaacaatgt tgctaaggcc 180

catggtggtt tctctgtgtt tgctggtgtt ggagaacgta cccgtgaagg gaatgacctg 240

tacagagaaa tgattgaaag tggtgtcatt aagctaggtg acaagcagag tgaaagcaag 300

tgtgctcttg tctacgggca gatgaatgag cccccgggtg ctcgtgctcg tgttgggttg 360

actggtttga ctgttgctga acatttccgt gatgctgaag gacaagatgt gcttctgttt 420

attgacaaca 430

<210> 40454
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E1

<400> 40454

ttagcctgtt gggtacctgg gatggtagag gttgtgagaa gtggaataca gctcaatcga 60

caatgctgca agctcttgtc tccatgcaag ctctgatttt gaatgacaag ccatattaca 120

acgagccagg atatgagtcc tatgccaaca ctcctaatgg agagcggctg gctttggact 180

atactgacaa caccttttctg cactcatgca agactatgtc atactcactt cggaggcctc 240

cagagcactt tgcagatctt gacgctggcc actttcgggt gcatgagcac acgattatcg 300

cggcatgcac acactacat 319

<210> 40455
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E10

<400> 40455

cagaaaagta gatgttcgaa tctgttatct tcattggatg gatacagttt taacttttaa 60

cataacattt cttctgttga ttgatgctcc catccatcag tatcttgact gagtatttct 120

aacaaggaaa agaaaaaaaa gaggtatacc aatttgctat cggtgtagtt gcaatgactg 180

aaattgtttt tgcttacaag aaaaagaaaa aaaacggtat aaccagaaga cgatcatggt 240

ttccctatca aggtgtcagc cgacaactaa caattgcggt atgtttcctt ttggaataat 300

caagtgctct gctccggagt ttggacaaca gtacatacat tctcccagca ggctgcttga 360

tgctgcatct tcctggaaca tcagaagtta ttgatttcat ttgccctcaa aatatcagat 420

gtat 424

<210> 40456
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E12

<400> 40456

ctggcttctc ctccccctct taccaagtcc tcttcgggtt agggttactt agggttttgt 60

ggaggggcga tggcggcggc tgatgtggag taccgttgct tcgtcggcgg gcttgcctgg 120

gccaccagca acgagtcgct ggagaatgcc ttcgcctcct acggcgagat cctcgactcc 180

aaggtcatca ccgaccggga gacggggagg tctcgcggct tcggcttcgt taccttctcc 240

tccgagaact ccatgctcga cgctatcgag aacatgaacg gcaaggagct cgacggccgt 300

aacatcaccg ttaaccaggc ccagtcccgt ggcggtggcc gtggcggccg tggctaccgc 360

ggccgtcg 368

<210> 40457
<211> 311
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-043-Q1-K1-E2

<400> 40457

gaccaatggg accgattgat ttgtttatta aaacgagacc acaatttcgg cactggcaac 60

atttaacagc aaaacaaggc caaaataacc ctacttcaaa aacgttgcag ttcacgactt 120

ctgctccaaa tcgaaatccg taaaagagca ctgctcatct tgtaccagtg aaaaaaaaag 180

aaacttcaga ttgatacact agttatttga cggatgcttn tacagctttc tctgccgcat 240

catcaagatc ttctgcagtg atcaaaggca ttccactttc cttaagaatc ctctttcctt 300

ggtctacatt g 311

<210> 40458
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E3

<400> 40458

gaaagaagtc gcctaattct ttcgatcgaa ttaggcgcct tcttcgtagc acgctccgtc 60

tttatttgta atctgaagct tacaggaaca tttgagtgga tcatggacgg attggtaggc 120

ctcttgaaag tccgtgtggt gaggggcatc aaccttgcct accgcgacgc aagaggcagc 180

gatccgtatg tcgacctacg acttggcatg aagtaactta agacgagcgt gaagaagaga 240

tctgtgaacc ctatctggca cgaggagcta actctgaccg taacaga 287

<210> 40459
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E4

<400> 40459

cccacgcgtg cgcggacgcg tgggcgtcgt tcgttcctca agtgatctta atcgtcgaga 60

agttaccagc tagcggagat catcggcaat gtcgaacatg gggcaatcct tccaggccgg 120

caaggcgcag gcccagggcg agtgccaggc ggagcgcgca gcgcagtgcg ttagggacgg 180

cgccggcgcc accgcctgcg ccgtgaccga caccgtcgga gccgcggccg acagcgcgca 240

gctgcaggag caccgcgccg tcggcaccgt tcagcaggct gctgagcagg tggcgcagac 300

ggcggcgggc gcggcggcag ccgtcaagga cacggtggcg ggcgcggcgg cggccgtcaa 360

ggacacgggg gcgggcgcgg cggcaggcgc caatgacgcg gtgaccggcg gccactgacc 420

gactcacgcg cgt 433

<210> 40460
<211> 429

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E5

<400> 40460

ggcgaaacaa ggccacacca ccagctgacc gtcgaacgga acgagcccgg cggccggaag 60

ggagagagcg cgccagagcg gcgccgaaca accctcgtcc accgcactct cctggaccgt 120

ggccatggcc atggccgccg cgtcccgatc ccgggcgctg tgggcgtccc gcgccgccgc 180

ctacctcagg atctccacct tccccagggc cttctccacc gtgctgaagg atctgaaata 240

tgctgacact catgaatggg tgaaggttga gggcgattca gcaaccgtgg ggattactga 300

ccatgcccag gatcatctgg gtgatgttgt ctacgtggag ctgccagaag ttggcgtcag 360

tgtatcccag gggaagaact tcggtgctgt cgagagcgtg aaggcgacca gtgatatcaa 420

ttcaccagt 429

<210> 40461
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-D11

<400> 40461

gtgggatcga gttgtttcac tgcacgagca catcctccgg cgaccaccgg cctccctctg 60

cgtcctatag cgaccgacca acgcgccgag cgaagatgtc gtggcagacg tacgtggacg 120

agcacctgat gtgcgagatc gagggccacc acctcacgtc ggcggccatc gtctgccacg 180

acggcgccac ctgggctcag agcaccgcgt tccccgagtt caagcccgag gagatggctg 240

ccatcatgaa ggatttcgac gagccggggc acctcgcccc gaccggcctg atcctgggag 300

gcaccaagta catggtcatc caaggcgaac ctggagctgt catccgtggc aagaagggat 360

ccggtggcat cactgtgaag aaaacagggc agtcactcat cattggcatt tacgacg 417

<210> 40462
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B8

<400> 40462

ctgatgactt gacagatcct gctcctgcta ctacctttgc ccatcttgat gctacaactg 60

tgttgtcacg gcagatctct gagcttggta tttatcctgc tgtcgatcca ctggattcca 120

catcaagaat gctttctccc cacgtgctgg gtgaggatca ttacaatact gctcgtggtg 180

ttcagaaggt tcttcagaac tacaaaaatc ttcaggatat tattgctatc ttgggtatgg 240

atgagctcag tgaggatgac aagttgacgg tcgctcgtgc aagaaagatt cagcgtttcc 300

tgagccagcc tttccatgtc gctgaagttt tcacaggtgc tccagggaag tatgtggagc 360

tgaaagaaca tgtgaacagt ttcaagggtg tt 392

<210> 40463
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B9

<400> 40463

gttttacaca gaatgcccgc tgaaggtggt agctgctaat gtgtgtatcc ctaacaaggt 60

tatagctccc aaaattccat ggggcacaca cacatgagat tgcgactgat cgtcagacgc 120

atgccaaagg tcagaggatc aggatgagtg cggcataatt gacgcattgg aggcagcaat 180

aacacgtgtt agaatatccg ctccaaagag aaatcggctt tgtagtcccg aaattaccat 240

tcagcatgaa tgctcgtcaa acttgaagaa taatctctgc tcggctttct gacctgacct 300

agcttatagc acctgatcgg agtggcgtat attcttctcg ctgagaaggt cgatgtgatt 360

taggtgttgg acatgcgagg ataataactc agcttttcca 400

<210> 40464
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-C1

<400> 40464

gcttggagta agggagagct tggctgaggc tgtaagtgct gttataagca tccttggcat 60

gcagccttgt gaggggactg acgtggtccc aagcaattca aggtcgcaca cttgtctgct 120

ctctggtgtg tttattggca acgtgaaagt cttggtgaga ctttcatttg gaatcagtgc 180

accgaaggag gtggccatga agctggcagt tagatctgat gatccagaga tcagtgacaa 240

gatccacgaa attgtcgcta atggctaaaa acaatagtag aatcgttttt ttttactctt 300

tttttggttt gacttgcatg ctacgggaag cttgaaggga ttcaattaat tctagtatat 360

gtaagtctgg tttccagttg aatccatcat ttgtcgcacc atcattcttc ctttgacagt 420

gcatcagttt ttttt 435

<210> 40465
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-C3

<400> 40465

ggagactgca attagtgctt ctttcacaaa tttagcaacc actacattca cagatttcgt 60

cttccaggca gctgtgccaa agttcatcca gttgcgtttg gacccagcga gcagcagcac 120

tcttcctgcc agtggaaatg ggtcagttac acaaagcctc agtgtcacca acaaccagca 180

tggccagaaa ccacttgcaa tgcgtatccg gatgtcttac aaagtgaatg gtgaggacag 240

gctggaacaa gggcaaatca gcaactttcc tgctgggttg tagggccacc tgtgtctata 300

gggtttgggt tgctctttca gacttatgct tgcctgctag tgagttgtgt acactggtag 360

ttggtttttg gccgtccatt atctctttat atatatagtg tacagtagat ggcagcgatt 420

aatgatata 429

<210> 40466
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-C4

<400> 40466

cggacgcgtg ggatcgcgga tacctcgagg agcagaaagc ctcgtcgcat gaaagagaga 60

gaaagttgtg gccgccgccg atgtctgctg cccgtgctgc cggtctgtgg ccggagtggg 120

gctatggtcg ttcacggggc tgtggtgatc cttggcgcgg agtcacagga gctagggatg 180

gacggaatca cccctaattc ctcgttgttg gtttgggcac cgccgcgggc cgttgtgccg 240

cgcggtcagt gcatctgcac cacgaattcg tgaggtcacg aggatctgaa gatcaccctg 300

gtaactggaa tctcaagtgc aggagaagaa catgtggttc aagagggcca cgcatcgagg 360

agttcgattc gatct 375

<210> 40467
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-C6

<400> 40467

ctctcgtgta tcttccaggt ttcccatttc tccttttgtg tttaaaggat aaactagatt 60

gctttgtttc aggaaccttg ctcaaattgc aaaagtaaag atcatgaaaa gagctggtag 120

cctctgggag gaacttcgca ttcatcacag cattcggtcc atcgtgtgtc tgaatttgcc 180

tagtttttct ggaggtttga atccttgggg cacacctggc acgaggagag cagaagatag 240

ggagttcact gcacctttg tcgacgatgg acttcttgag gttgttggct tccgtgacgc 300

ctggcacggg ctggtcctgc tggcccctaa tggaccacgg aactcgcatt gcccaggccc 360

ataggatccg ctttgaattt cacaaaagcg caacatacca cacgttcatg agggtt 416

<210> 40468
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-C7

<400> 40468

cctgaggggg atcgtcaacc cccttggcat caaggtgagc gacaagatgg agcccggcga 60

gctggtgaag ctgatcgaga tactgaaccc gacgaacaag cccgggagga tcaccgtcat 120

cacatggatg ggggcagaga acatcacggt caagttacct caccttatcc gcgcggtccg 180

ccaggctgga cagagtgtca cctgcatcac tgacccgatg cacgggaaca ccatcgagac 240

tccttgcgga cgaaagactc ggtcatttga ctccattctg gccgaggtac ggtccttctt 300

cgacgtgcac gaccaagacg gaagccagcc tggaggtgtc caccttgaga tgaccgttca 360

gaacgtgacc gaatgcacgg tcgggtcaag caacgtcacc ttcgacaacc tgagagaccg 420

ttaccacacg caa 433

<210> 40469
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-C8

<400> 40469

cggaaacatt cacccagaca gcccagctgc aaaatatctg aaggagcgtg gcgttgaaag 60

gaaggacttc aactcatatg gtagccgaag aggaaatgat gagatcatgg ctaggggaac 120

ctttgccaac attcgtcttg tgaataagtt cttgaagggt gaggttggac ccaagacaat 180

ccatgttcca tctggggaga agcttgcagt ttttgatgct gctatgaaat acaagaatga 240

agggcatgac actattatcc tggctggtgc cgagtacggg agtggaagct ctcgggattg 300

ggctgcaaag ggcccaatgc tgcagggagt gaaggctgtg atagcaaaga gcttcgagag 360

gattcaccgc agcaatcttg ctggcatggg aatcaatcct ctatgc 406

<210> 40470
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-C9

<400> 40470

gaggcgcgta gacgaactcg tcggcgcact tctgccgtat gctaaagcgt cagcagcgag 60

gtcatgtttg caagatgaga tgcctaacat catagaggtc atggatgaca gaaacggggg 120

cccatgagcg cacggtcgat ggctcaacgg gcggcgctgt ataagcaaca gcaactcctg 180

acggagaaca tgagcttgca tccatctcgt gtaaagagaa catcgtcaag gagatccagc 240

gagcagatgc aactgagaac tggaaagcga acgcgaaccc tgaggaacca taccattaaa 300

ccgacttgat cttcggaaaa ctcaaggagg gaactagcgt ggtctctgga gaaccatttc 360

caaaagatg 369

<210> 40471
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-D1

<400> 40471

gtctaattat acaactctca gtctagggaa ctcactcatc ttaagggtgg acatgaacca 60

atcggtggca ctaccataca aggggaggac agacatggcc atagcatgaa tgtcattgca 120

tgcgtttcca ttgccatgct ccttgccttg tgcacattat ataacctcca aactcactag 180

gtctatactt actacattct atttgatacc cgagcgtgca tgcaccgcct gaccatctat 240

tggaagcccc gttaaatggc gacagaatga tgcatagaat cgtgcaaagt caaacggaca 300

atgagagcta cac 313

<210> 40472
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-D10

<400> 40472

tgcaggagtg ggtgctggac aagatctgat tgtcctgaag attgatgaca caagcggcgt 60

gtgtggcaca tctcaggcgt ggtctataag cctgtcggtg ctaacaacgt taattgagca 120

ggcactgaat gacgctgcct tcgactagta agggcctgga cgaatatctg atcaactcgt 180

acatcatctt catgcatgtt caactgctta agtgcgagtt cgactccaag gtcacctctc 240

acatgcgaaa aggagtactg acccaactac ctggcactga tgctcaagaa cgtctactgt 300

gacagctaca ttggagccat ggacgtcata ggacaaaggc taattcacgt acgatactgt 360

gaagcacttc tggtgctcca tctgcacgta ggacagtgac taaccgctta agggacccgt 420

caccg 425

<210> 40473
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B7

<400> 40473

gccacaggca cctgctgcac cacctcagca gtaccaatcc caaacccagt tccctcaata 60

tgcacagcca cctcagcctg caaatgttaa cccttcaact ccccatgtgc cccatgcacc 120

ccagcaacca gaggaaacta tgccttatgc accagctcag agctatccac ctaatgcaat 180

cgctgcacct tatatgcaac cacctagtgg acctgctcct ccttactatg ggcagcaaaa 240

ccctagcatg tatgaacctc ctgcaggccg ggctaaccct gggccaccat catcctacgg 300

ttctggtggg tacgggccac agggtggagg tagtttctct gaatcttatg gttacactgg 360

atctccttcc caccgtggca atgctggaat gaagcagtct tcacctttg ctcaatcctc 420

tggaggaagc ggc 433

<210> 40474
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A3

<400> 40474

gggcacatta cccttctgtg aagggtgcaa aagttgtaac agacaagctg acaatgcgca 60

caaagggtta tggttttgtg aagtttggtg atcctaatga gcaagctcgt gcaatgactg 120

agatgaatgg catgctatgt tcttctaggc ctatgcgtat tgggcctgct gcaaacaaga 180

aagctactgt tgttcaggag aaagtaccaa gtgctcaggg agttcagtct gacaatgatc 240

ctaacaatac aaccattttt gttggtggtc ttgaccccaa tgtcactgaa gatatgttga 300

aacaagtttt cacccccttat ggggacgtaa tccatggtaa gattcctggt ggcaaaagat 360

gtggttttgg tcaatatgct aacagatct 389

<210> 40475
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A5

<400> 40475

accggaagga cgcccacacg tccctgtaca ccatccggca agggaagctg ctgacgccta 60

agcagaaggc agaccccgag aagttcgcgg attgcatcca ctggtgcctt cctggcgtgc 120

cggacgtgtg gaaccaaata ctctacacga ggattctttc gaaatcatca tggcattcta 180

attttagccc ccctccatcc cagtctctgc ctcttcctcc ccaatgagaa tcagaagtgg 240

gggcttggtt tttgtcggag aatgtatgat ttttcattct ttttccttcc tttttgggta 300

gattgagtaa aatgatagca cgaaaaggaa aatgaatgtt ctgattactg atggtatagc 360

atgtaagaag attcagctga agtgtaaatt agttgtgagt tagccaattg agaaaacaac 420

agcgacct 428

<210> 40476
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A6

<400> 40476

gcggctcggc ccataacgaa gccgctaggg tttttgccca gtagttggct tgcatagttg 60

catgtacaca atttctcgcg ctgctaccgc cgcttcgttc tctaaccttg gctcccgctc 120

cctccgcagg agcatctcaa caccgccttg aggacccccc aactcgccgg ctgcagccat 180

ggtgaaatat tcgacggagc caaccaaccc caccaagtca accaaggcca tgggccgtga 240

cctacgtgtt cacttcaaga acacccgtga gacagctttt gcccttagga agttgtcact 300

caccaaggcc aaaaggtacc ttgaggatgt gattgcccac aagcaggcca tcccgttccg 360

caggtattgg ggccgtgttg gacgtaccgc tcaagctaag tctcgtcact caaatgggca 420

agga 424

<210> 40477
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A8

<400> 40477

atgatactcg ccgacggcct cttcaacttc ctgtccatcg tggcgtgcac gctgcacacc 60

atgcgcaaga ggcgcagcag gcagcagccg ataataatcc aaggcggcgg ctgcggtggc 120

ggtagtgaag ccgacgacgg tgacacgcag ccgctaccgt tccactgcct caacgctgct 180

gccgagcaac cgaagaagag cttcgatgat cgccgccggg cgcaggtgtt tctgcgtgac 240

cacatatcca actcggtcaa catcgtgtgc tacgtcctcc tgt 283

<210> 40478
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A9

<400> 40478

cggacgcgtg gcatcggatc ggcactagat cggaacgaag ggcctgcagg ccctctggcc 60

ggtcgtcgat cgaggaacca agctgctgct gctgctaccg gacgacacca tccatgatac 120

ggaggaccac cgtgtgccta ggcctggtgc ttctactact ggcggcgtcg actgcgacgg 180

cacatttctc gatcggcgac gtggacgagt acttgaacag gcgcacgcac gagtcccgcc 240

acaggaacca ctgcggcgcg cacatcaatg acctcatctc cagtgctgcg cgctttcacg 300

ccaacgtgga tgcacgcgcg tatg 324

<210> 40479
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-043-Q1-K1-B1

<400> 40479

cgaccgctcg tcgccgccgt ccaaatcgtc gggcttctcc gccttcgtgc gcgcctactt 60

gcgcttcctc gacacccgct cgctcttcat cgcccaggat ctagatgccg tcgccgacac 120

gggcgagacc gacggcgagg acgcgaggct ggatcacgtg accaagcagc agcacctgct 180

gcacctgctc ctgcaaatcc gaccgtacgg ggacggcatg gagctgggcc tcatcttcga 240

ggcgatggac tgcgtcgtta tcgagatctt cgaggtctac agcgagatat gcacgggcat 300

tgcccggttc ctcgtcgccg ttctcggctc ggccccgatg acgccacggg cacggncggg 360

agagacgttg gcggcagcga ggcggccgaa ggcagtgcaa gggatgcggg tactggaaaa 420

tgcccgcgag c 431

<210> 40480
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B10

<400> 40480

gttttacaca gaatgccccc tgaaggtggt tgctgctaat gtgtgtctca ctaacaaggg 60

tatagctccc aaaattccat ggggcacaca cacatcagaa tgcgactgat cgtcagacgc 120

atgccaaagg tcagcggatc aggatgagtg cggcataagt gacgcattgg aggcagcaat 180

aacacgtggc agaatatccc atccaaagag aaatcggctt tgtagtccca taattaccat 240

tcaggacgaa tgctcgtcaa actcgaagaa tgatacctgc acggctttct gacctgacct 300

aacttatagc acctgatcgt agtgacg 327

<210> 40481
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B11

<400> 40481

cacacatcca tcaaagaaac aggcacacaa gaacaaatac ctcgccacca acaatggcct 60

ccaggtcctc catcctactt gcaacggcga tgctggttgc gctgtttgcg gttggtttgt 120

gcaccacccc gctcaccttc caggttggca agggatccaa gcctggccac ctgatcctca 180

cccccaatgt tgcaaccata tctgacgtgg agatcaaaga gcacgggggc gatgacttct 240

cctttacgct caaggagggc ccgaccggca cctggacgct cgacaccaag gccccgctca 300

agtacccccc ttgcatccgc tttgctgtca agtccggtgg ctaccgcatc gtcgacgacg 360

tcatccccgc cgatttcaag gccggcacca cctataagac cacactcagc atctaatca 419

<210> 40482
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B2

<400> 40482

gcagtaacca gctgtgtata aagaagattt agctccgcct attcctgttc ttactcgata 60

taaaaaggag cttggaatca aggcttttgt aaaaaaagag gtccaagaag ttagaacagt 120

tgatgagagg aaagctagcg aaattactca gcttacaatg ccaaagcttt gtgttcgtct 180

taacagtcta tattacggta tcagccagtt gagtaagttg gaggacagca ttaatgagag 240

gtgggctcgg aagaaaagtg aaaacactaa catcagacga aaaagtgaaa agtcaaagag 300

tgccgaccct aatcagaaga atcaatttga tggcagcaga aaagaaatca atactgctat 360

tgatcgtctc tgtgaattta ctgggacaaa ggttatattc tgggacctgc agcagccatt 420

tgttg 425

<210> 40483
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B3

<400> 40483

gcgcgaccgc cgacgcccga cggcaggtgc accaggtctt cgtcgacccc ttcgcaaggc 60

ctcggttcca tccttcgccg gaggcgaccg cccgtcaaca ggacttgatc tactactcac 120

tagcggtgta gaggcgaaga gaagaacttg accatgagca gcataggcac aggttacgat 180

ttgtctgtca cgactttctc cccagatggt cgtgtcttcc aggtcgagta tgccaccaag 240

gccgtcgaca acagcgggac tgttgttggg atcaagtgca aagatggcat tgtcctgggt 300

gtcgagaagc tggtaacctc aaagatgatg ctggaaggat caaaccgaag gatccattcg 360

gtgcaccgtc actctggctt ggatgttgct ggtttagcaa cagatggcaa gcaaat 416

<210> 40484
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B4

<400> 40484

gctgaacaac tggaagatgc tgtgcactat ggtcgtgcta acctggcaag cttcttgaca 60

cacgaagctt ttgagtggct gctgaaggat agtgtggccc tgctggcgta cgagaagcct 120

gcagaatcat gcttgggata cctgatgggc tctccccagc gtgaattcgt ggcagacgca 180

gtgaacgcgg ctgtcctgtc gacgaacccc accatgaagg accctgagag ctgcctctac 240

tcgtgtctcg agaggctact aaggcagctc acagtttgta gccttgagcg acgtgcattc 300

aacaacgacc aaggagatgc attcttactc cacaaagaaa tgcaaaacct atgaaaggtc 360

taggcgctca tagccctata ggcatcagga ttgttgcgct tctgaagtaa actc 414

<210> 40485
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B5

<400> 40485

gacagaatct ttggtatctg gccaagctat ttcttgatca caagacattg tactatgatg 60

ttgatttatt cttgtgatat gttctctgcg aatgtgatga ccggggatgt catatggcgg 120

gatatttctc taaggaaaaa cactctgaag aatcttataa tttggcttgc attctcactc 180

tccccccata ccaaagaaaa ggatatggga agttcctgat tgctttctca tatgaacttt 240

ccaagaagga aggtaaagtt gggacaccgg agcgccctct ttctgatctt ggcctgctca 300

gctatagagg ttattggact agagtgcttc tggaaattct aaagaaacat aagggtaaca 360

tatctataaa ggaactcagc gacatgacgg caataaaagc cgatgacatc ttgagcacgc 420

tgc 423

<210> 40486
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B6

<400> 40486

agatgatgtg ttgtttacta tcctcggggc tacatgtgtg gactgtgaag gtcggggccg 60

atgtacatag agatgccagg gaaggtgtcc cggagtttga gagagctttc agggagaggt 120

tctctactta cacattagct gctaagaggc atattgactc cactaccatc ttcgacgtcc 180

aaggggctca catggatcat cctcgagcgc aagcaaactt tgagatcgcg ctgaaagcat 240

gtcatccctg gaatccttca gttgggagta acatttagtt ccactgtgtg gtttttgctc 300

tctaaatata ttgctcggca tacatatgtt tgtgatctca tagatttgga ttttgaaccg 360

ttccaagttc ttaattttgg t 381

<210> 40487
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-G2

<400> 40487

cggacgcgtg ggcacgatta gcaattagag ttagactctg cttttgcttt ttcggcgtgg 60

atgaaatagt tagcgggaac ggcaaataag cacttttttt tgtagaaaat acacaaagct 120

tttttttgt gggtgtggtt aaaaaagatg gataaa 156

<210> 40488
<211> 334
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-042-Q1-K1-G3

<400> 40488

cctcctccta cgccgcgctc aacgggatcc tctactgcaa gatccatttc tcgcagctgg 60

tcaaggagaa gggcagctac aaccacctca tcgagacggc gcagaccaag aagaacgagg 120

ccgcggaggc cgcagaggag ccatcggtgg acgcangcgc cgcggctgag gcggaagcgc 180

ccgcggaatc ggcgtagaac gaagagtagc cgcgtgtgta tctcctaatt atacgaactc 240

tgcattcagt aagtagtttt cacaaatcta tatatgttgt tgttatgctg cagcttgggt 300

ttggtcagtc tgggattgta acacgtgtat gttg 334

<210> 40489
<211> 315
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-042-Q1-K1-G4

<400> 40489

atcccctacg actacccgga gttcgtcgcc gacctggcca agcaggtgaa gcaggggcag 60

atcaagctgg agcgcatcga cgacgccgtc agccggatcc ttcgggtcaa gttcgccatg 120

ggcctcttcg aggacccgct cccggacccg cgcctcacca aggagctcgg cgcgcaggag 180

caccgggcgc tggcgcggga ggccatccgc aagtcgctcg tgctgctcaa gaacagcaag 240

aaggggcagg cgaagccgat gctggcgctg cccaagacgg ccaagaagat cctcgtcgnc 300

ggcagacacg cccac 315

<210> 40490
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-G6

<400> 40490

accatgagca attacagtta cactcttctt ttgcttttta ggagcgggtt aaattggggg 60

cggtagggga aaataagctc tttatttttt tgaataaaca caaaacttgg cttttgtatg 120

tatagtttaa aaagattgac taata 145

<210> 40491
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-G8

<400> 40491

cccacgcagt ctatatgctt cgacgagagg tgggtcatct cgcaccacac tcctgatctt 60

gcgctcgtcc atgctcgagc gtgcctagag attatggtga cccaaacaga taccccgatg 120

acctatcatg agcaataatt gcctcttcgc aagggtgaat cccctctaca aacacacaag 180

tctgtggcga acatgacg 198

<210> 40492

<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-G9

<400> 40492

atcaccgtga tgctctccaa gttcttccac atcaacatcg acaactcaga gagcatcacc 60

gtgaaggacg tgaacatcac cgcgcccgcc gacgttgaga acacggacgg cgtccacgtc 120

ggaggctcct ccaagatcag catcctcaac tcgaccatcg gcaccggcga cgactgcgtc 180

tcgattgggc ccgggtgcaa cggcgtcttg gtggacagca tcacctgcgg gcccgggcag 240

ggcatcagcg tcggctgcct aggccgctac aaggactaga aggacgtgag cgacatctcg 300

gtgctgaact gcgtgctcaa gaacaccatc aactgcgtgc gcatgaagtc gtacgtggac 360

gc 362

<210> 40493
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-042-Q1-K1-H1

<400> 40493

cgcaaggact gcaaagtgct gccaacaagc gtgttgttcg tgaacaacca gaacacggtg 60

gtgcgcgacg tcacgtccgt gaaccccaag ttcttccaca tggcgctgct gtcggtgaag 120

aacatccgga tgagcgggct caagatcagc gcgccctcca acagccccaa cacggatggc 180

atccacatcg agcgcagcag cgggatatcc atcatggaca cgcacatcag cacgggcgac 240

gactgcatct ccatcggcca gggcaacgac aacgtggacg tggcccgcgt gcagtgcggc 300

ccaagccacg gcatgagcgt cngcagcttg ggtcgctact ccggcgaggg agacgtcaca 360

cgggtgcacg tgcgcgacat gaccttcacg ggcaccatga acggcgttcg catcaagaca 420

tgggagaact c 431

<210> 40494
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-H10

<400> 40494

aaaaaagcag cgcttgccgc acagtttgca gctgaggcaa cactacgaag ggttcatgcg 60

gcacagaagg atgatgacat gcctcctatt gaggccatcc ttgcaccact ggaagctgag 120

ctgaaactgg cccgtcaaga gattgcaaaa ttacaagatg acaacagggc attggatcgt 180

cttacaaagt ctaaggaagc agctctgctt gaagcggaaa ggacggttca gatggcactg 240

gcaaaagctt ccttggtgga tgatctgcaa aacaaaaacc aagagttgat gaaacagatt 300

gagatatgcc aggaagagaa caaaatcttg gatagaatgc accggcaaaa agttgctgaa 360

gttgaaaagc tcacgc 376

<210> 40495
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-H3

<400> 40495

caccgttccc ctgcatccca ggccagccac ggcccccgcg gttgccacct tgcccgccgg 60

cgccaaccga gtgctacacg tggctgtcgg gaatgatgcc gtgcgcggac ttcctcaccc 120

acaacgaggt gccaccgatg ccacccacgg tcgcctgttg tgatggtctc aggtcactcg 180

tcaccaacgc gtccatctgt ctatgccata tcgtcaacgg taacatcaac aagctcctac 240

cggcgcccat gatacccgtg cgcatggtgg cgctcccccg cttttgtgtt gtccgctttc 300

cacgagccat acttcgccgg tgtatcagaa ggcatttgcc accgatgaac 350

<210> 40496
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-F5

<400> 40496

aaaaaaacca gcagctagcg atggctggag cccgggcact gctcatcgtc ctcgcggctg 60

ccgtcgcggt cctggccgcg cggccggcgt ctgcaggcgg gggagccgcg gcggtggcgg 120

acatctgcat gaagactccg tcccccgacc tgtgcaccag gacggcgggg aagcacgcca 180

acaagtacaa ggtggtggac gccgtgacgg tgctagagat gcacgtggac gcgttcaaga 240

agcgcgtgaa agcggggcgg aagc 264

<210> 40497
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-H4

<400> 40497

gccggcgccg ccgcgacagg aggaaggagc agcagcggca ggggaggccc ggcgatctct 60

tctgttgcgt gcggcgaggg agtaaaagga gccgcgacag gatgcactcc tttgggcacc 120

gcgccaacgc ggtggcaacg ttcgcggtca ccatactggc cgcgatttgc ttcgccgcct 180

ccttctccga caacttcaac accccgacac ccactgcctg cgttaagatc ttgaatctaa 240

actggttcca gaaggaagcc aacggcaacg acgaggttag catgacgctg aacatttcgg 300

ccgacctttc gtctcttttc acgtggaaca caaa 334

<210> 40498
<211> 165
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-042-Q1-K1-H5

<400> 40498

caggactgaa agtgctgcaa aagcttgttg tcgttaacaa ccagaacaca gtggtgcacn 60

acgtcacgtt ctttgacccc aagttcttcc acatggcgct gctgtcggtg aagaacattc 120

gtatgagcgg tctcaatatc agcgcgccct ccaacagccc caaca 165

<210> 40499
<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-H7

<400> 40499

catcctttgg gtactagaaa atgctgagct tgctgctgtt gcactatcgg ctgcatcggc 60

aactgctgct ggagttggca tgggtgctgc tggcgctgat ggcgtggcag ctttgggaac 120

aactggccca gctgatgcag ctggcttaac tgcagctgca attggggctt ctgttgctgg 180

tggattaact gcataaaagg gtgtggcgca agatgggcta actgctgcag atcat 235

<210> 40500
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A10

<400> 40500

aggacattgc attcgccgtg gcgcgcttct tctccgtggg cggaaccttg gcaaactatt 60

acatgtacca tggtggaaca aacttcggaa ggacatctgc tgcctttgtg atgccaaaat 120

actacgacga ggcacctctc gatgaattcg gcctgtacaa ggagcccaag tggggccatc 180

tgagggacct gcaccaggcg ctgaagctgt gcaagaaggc cctgctgtgg gggacgccgt 240

cgacggacaa gctgggcaag cagttggagg cgagggtgtt cgagatgccg gagcagaagg 300

tgtgcgtggc gttcctcttc aaccacatca ccaaggacga cgcgacgatg acgttccggt 360

gccggtccta cttcgtgccg cgccacttca tca 393

<210> 40501
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D7

<400> 40501

gaaaacaagc cgacggtttt actatcggca ggtgcggcca aatgtgctcg ctgcagcacc 60

tacaacataa atgggggttc atatgagctg aatgtctcgg gttctcgggg acctaggcgg 120

atgaaatgag ttatgcactc catacctacc tcacgccttg aggctgtggg cactgttacc 180

agccagctgg acagaatcct tgctagatct actgaagaga cattttgcag catttgcttc 240

tccaaagcat ctgttgtgga ccgcgctatg tgtttgacca gctcaagatt c 291

<210> 40502
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D8

<400> 40502

gccacgcgtc cgcgatcacg acaagatggc atgcacaaac aatgcgatga gagccttggt 60

cctcctggtc ctcttctgca tcgtgcatgg tgagaaggaa gagtcaaagg gcatcgatgc 120

gaaagcgtcc gggcctggtg ggtccttcga catcaccaag ttgggcgcct ccggcaatgg 180

caagacagac agcacgaatg ctgtgcatga ggcatgggca tcggcgtgcg gcggcactgg 240

gaagcagaca atcctcatac ccaagggcga cttccttgtc ggacaactca acttcacagg 300

cccttgcaag ggcgacgtga ccatccacgt ggatggcaat ctgctggcga ccacggacct 360

aagccagtac aaggaccatg gtaattggat cgagattcta cgcgtggata acctggtca 419

<210> 40503
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D9

<400> 40503

gaaaggtcga agcgtcgtct ctctcggcac ggagcctagt gcccggcctc gtgagatccg 60

ggattcagaa gcgaggatgg cgacgaccgc gactaggcgg tggtggaggc ggcacgaagg 120

cggcgacgat gacccagacg acctcgtccc catggacacc caagagcaag aagagctggt 180

ccggtctctg gaggctaagc aggcgcagca aggccgccgt tggaagcgcg tcttcgcggg 240

gttcctccta ggttacgcgg tcttccttgt ctactacagt ttccatcatg cttggtctcc 300

ctgggagctg cggtaccatg cttacttcat ggaagatttg cctgcaccaa tggtcataat 360

tgcaggatta ctacaaaatt catgcccatc aaagaagtgg atgtggtatt cttgctatgt 420

t 421

<210> 40504
<211> 298
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E1

<400> 40504

cgagaacccc gagaagagca tcgacaccat tcacatcgac gggtacgcct tcttcgccgt 60

cggcatgggc cccggcaaat ggacgccagc gtcccggagc acgtacaacc tcctggacac 120

ggtgagccgg cacacgatcc aggtgtaccc tacgtcgtgg acggcggtga tgatgacgtt 180

cgacaacgcg ggcatgtgga gcatccggtc caacatctgg gagaggcagt acctcggcga 240

gcagctgtac gtgagcgtca tctcgccgga gcggtcgctc agggacgagt acaacatg 298

<210> 40505
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E10

<400> 40505

gggtacggct cgtcggctgg cgcccccgcc tacggcgctc cgtctcctga tgccccagct 60

tatggcgcca gcgtaccagc accgacctcg gagcagagta ctgcttcgac tgcatgagtg 120

atatcgcggc ggcacacacg catcttggtc actcctatcc atggttcgaa ttaccgaccg 180

aaaagtctgg ttcctcggcc aatttctcgt tcccggtcag ctaggggaag catttctcgg 240

cccggtatca cattgtaaaa atatgaaagt caatttttt tgttcaaaac gaaatttcgg 300

aacagtgaag cgaaaaagtg aagcctgttc cttactatgt tcaaggattt ttgctctctc 360

catcccacaa ttttcgagca gtatgtcagc ttagaattag gattatttgg tgctgcatca 420

ttgatgca 428

<210> 40506
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E11

<400> 40506

ggaggtgaga atccagggtc aacacgctat cttcatcatc acttctgggc aacagagatt 60

atgttgctgg gcagatcttt gatttagctg ataaactaga gcaagctgaa ggccagctgg 120

cacacagtcg atttggtggt atgattatgc cttcacaacg aaagaaagag caagaagagt 180

ctccactggc taaggtaaca cgagatagct ccaaaatcac agctgagcag gttcacggcc 240

tcatgtcaca ggtcataaaa gacatccttt tcaactctgt tcacccgtca agcaagggca 300

ggccaaagtg cttcaccaga ttcatcaagg cctgagccta tggttgaagc ctgagttcca 360

gcgaaagggg acattggata tttgcgttat gctatctgat tc 402

<210> 40507
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E12

<400> 40507

cggacgcgtg gggttgcggc tcatgctatg aggtgagatg caaggaaaaa cctgagtgct 60

cgggcaatcc agtcacggtg tacatcactg acatgaacta cgagcctatc gctccctacc 120

acttcgactt gagcggcaag gccttcggct ccctggcaaa gcccgggctc aacgacaagc 180

ttcgccactg cggcatcatg gacgtcgagt tcagaagggt gcggtgcaag taccccgccg 240

ggcagaagat tgtgttccac atcgagaagg gctgcaaccc caactacctg gccgtgcttg 300

tgaagtttgt ggcggacgac ggtgacatcg tgctgatgga aatccaggac aagttgtcgg 360

ctgagtggaa gcccatgaag ctctcttggg gcgccatctg gaggatggac act 413

<210> 40508
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E2

<400> 40508

gttacagtga ttaacttgga tcctgaccag cctcttgagg ttcttgcaag agctggtgtt 60

ggtgcccgcg ctgcacgtgg ggctcatccc attgaagaca ttgctaataa gggattgaag 120

attgatggtg ggagcgctca gaagattgct ggacgtggac atgaagggac tacatgtcta 180

gggccataga aagtatgcta ttattatgca cttttgcttg gcctatttgg ttctgta 237

<210> 40509
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E3

<400> 40509

gaggaagatg aggaagggct cgggggcggc ggaggctggg ggaggaggga ccgcgggccc 60

gaccccgact acgacccggc ccttgacatg gaacgcatcg agtcctcgac cgtaaggcta 120

ttggacgaac agaaaagaat ggttggtgta gtatctgtca gcgaggcagt tcagattgca 180

gacgataatg atcttatact ggcaatatta tcaatggatg gggacccccc agtacttcga 240

ctctttgagg agagagatta caaaaaacat aggtgtgaac aacagaagaa gaaaaagatt 300

cagcaggaaa agatctgtcg cgaaacgcat gggctttgga agagctgaat aaggggatac 360

caacatttga caattcatga tta 383

<210> 40510
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E4

<400> 40510

cccacgcgtc cgcgacggga gggggaggga cactgggatt gtgagggata ggcggggatc 60

aggaggaagg gactcatgcg gtagggatga ccaggatgat ggggagaggg agatccagga 120

gctctgggat accattgctg gtggtgagtc agaggatgac caagaaggtg ttagaaccgt 180

agatgatgat aatttcattg atgacactgg agttgatcca gctgatcgtt atggcagcga 240

taatgttcta cattcacctg gacgttatgc acatgc 276

<210> 40511
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E5

<400> 40511

ctcgtcggcg tgcgtccgtc ccctggccgt ctggagaggt gggtggggag tctaccggac 60

gcgggtagcc ggggcggtag ggccaccttg ccgatacaag gtgttgggta ctatgagcct 120

gcacacaatc cagtgtaccc tag 143

<210> 40512
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E7

<400> 40512

gtgaggaggg tttctttccg tgcgccgagg tcttggcccg acggtcgttt acttgcaggt 60

gattacctac gggcttcttc gggggatttt gagggttgtc cgcaccagtt gatctgctat 120

tctcttgcat tcggggtcgg ttcttgcgaa acctaacttg accgcaggca tggagcactg 180

ctatgtggga cagccgatct ccaaggccga tgctatgccc taaa 224

<210> 40513
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E8

<400> 40513

gcgacgatga tgccacagct gcggaacctc ttcgcgctgg tcctagcggg cacggccatg 60

gacgactatt cgggtgttgg gtaggaccat gaaccccaga ggctatcgta gcaacagaac 120

ttctctcttt gatggcattg aggagggtgg aatccaagca acatgctatt cttgtcatga 180

gatagatgag caagaaaatg atggagctat tgatggactg caggatcgtg tcagcattct 240

caagcgggtg tcaggcgata tccatgaaga ggtggagact cataacagaa tgctggaccg 300

aatggtgaac gatatggata ctttaagggg ttttttgtct gggaccgggg acaaatttaa 360

gattggtttt gggaccaaat caagccggag ggtgggaacc cttcgtgaat tatttattga 420

cctttttt 429

<210> 40514
<211> 160
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D6

<400> 40514

ggcaatggaa ctagatgaac aacctttga tgcaaacata ccagattagg gaaaataaag 60

tgctcgtccg ggtaaatcaa gggatgttca aagtgcttaa atagcacttg gttacatgaa 120

acagaagggt atggtacctg gtgttattct ttacaatgaa 160

<210> 40515
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-F11

<400> 40515

cccacgcgtc cgcccacgcg tccgcctctt ctccggctag ggtgttcacg cctgccgcgg 60

cgaagcttct gccctccccg gcgtcgggct ctggtcgtcg tcaatcgtga agattgctga 120

tgtcttttgt gttctatatt ata 143

<210> 40516
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-F2

<400> 40516

gatggctccc tcgggtgtgc gagtggtggc gatcccaggg gcgagaggcg gtggcgcccc 60

gaggtgggcg atcgacgacg atgctcccga ggtgggtggg aaagcggcgg cggcactccc 120

cttagaccga gtgatggcgt cgctcccgag gcagacgggc aagtggtgag aacgctcccg 180

aagcgggcga gcggtggcag cgcaccctaa gcgtggaggc gacggcggtt gcgtgaggtg 240

aggtaagctt cggcagcaga tgtggcggcc acaagagacg cgggtggctc caggagtcgc 300

gcgaggcatg gtcaattttg ccatggcggc ctcaagaggc atg 343

<210> 40517
<211> 333
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B7

<400> 40517

tgcagtcatc tcctccatca ccaccaaact caacaacagc cagctcgcga aaataatgaa 60

gagccgcagc atggcatcat cggccgcgct cttggtgcta gccctcgcgc tagtggcggc 120

caccgcccca caggtagcgg aggcaaagaa gaagagagcg gcggagagcg gcgaggcggc 180

ggaggcgaag aagatccagg acgacttctg ctcgacgctg tgcgagggca agaaggggac 240

ggacctggtc gtgtgcaagg agtcctgcgc gctctcccag cagtccaacc tggtgctgta 300

cggcaagatc caatgcgagg gcaagtgcac cga 333

<210> 40518
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B8

<400> 40518

tgatgacact gatactgaac ttgatttgga tagcccgaca gagggcttgg cattaattgc 60

agaagccatt gaggacatac aacaaggaaa acttgtgatt gttgttgatg atgaatcaag 120

ggaaaatgaa ggagatctga taatggctgc cttcttggtt accccagagg ctatggcttt 180

tatagtaagg catgggacag gaattgtttg tgtcagcatg aaagaagatg atctggaaag 240

actgagcctt cctttgatgg ttaccacaaa agaaaatgag gagaagctat gcactgcttt 300

cactgttaca gtggatg 317

<210> 40519
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B9

<400> 40519

agaagaagga tttaaacaat caaagaaaag gaggcctggt gtttctcctg gtgacaggtc 60

tggtggtctt gctaaacgag ggaaagaagg aaagaacagg agggcaaagg attccatgtt 120

tgggcacggt ggtcgtaaag ggctgaagaa gcaaaacacc gctgagacca ctaatgattt 180

cagaagcttt aaccaggggg gtgggtctca aaacaagaag agaaagaggt tttgaacttt 240

tgatggatat agtaagaatt tgggtgagtc tcaaaaccag atgaggaaga agttttgaac 300

ctttgctgtt attactatcc ccggtgtggc attattttgt tatggtgtgt gccagaatga 360

aaaattagct tgtattagtc tagagaagca tttcaaacac aagggcttat gtcttgcttt 420

atctgata 428

<210> 40520
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C11

<400> 40520

cggacgcgtg gtcggacgcg tgggcgatca cattgtctct cactgcatcg ttcgttcatg 60

gatcaactac tggaaattag agagcctcat ctcttggtcg gtgaacctgc gaggaaagac 120

taaggagtcg aacatgacat gctgtggtgc tgctcgagcg cacgactacg actatcgctt 180

ctagcagctg tgatcttgtg cct 203

<210> 40521
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C2

<400> 40521

cggacgcgtg ggcggacgcg tgggtggaaa tattacttta tatggtcaat ttcagaagcc 60

tcaattatca tatctggtct aggctttact ggttgggcga aatcttttcc cccaaaagcc 120

aaatggaatc gggcaaaaaa ggtggatgga ttaggggt 158

<210> 40522
<211> 94
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C3

<400> 40522

cggacgcgtg ggcaacacgt gcggcattgc cgagaggggt tgcgagagcg acgcttttgg 60

aggacgaaga cgacgactag ggggcgcgcc gcga 94

<210> 40523
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C4

<400> 40523

cagacgcgta cggaagccag gacatggaaa taaaaccgtg atacctgcct actgatgcaa 60

gaaaaacacc gagataccac ggtgctgaac ggagtgatag acgtgctcga ataccacctt 120

gttcaatgca ccgccagggg caagtaccag gtcttatacc ttaaaatgaa tgatgactac 180

cacatggacc ttgctgagtt caaaactagt gcaaagagga aagatacttt ttacagcacc 240

atgaatgcct acacaaatgg tcacgacatt ggtcttggaa aaatgggtgt aaccacaccc 300

catcaagctt ggccttggtt tcaactta 328

<210> 40524
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C5

<400> 40524

gcgacaggcg acgcggtctt tgtccctggt tcacagggcg cggggcccct gcacagcgac 60

caaccccatc gggcattgct ggcggtgccg acgagactgg gcccccgacc gtaagcgcct 120

gtgcaggcgc accatgggct tcggtcacat gacacaccgg cgggctggcc ggcaagttct 180

acgtggtgat tgaccccagc gacgacgccg ccgacctcgt caccccccagg aagggcacgc 240

tccggcacgc cgtgacccgg gcccgggcgc tgtggattac cttttcgcgc g 291

<210> 40525
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C7

<400> 40525

gactgattgt tgttcctttt tctccctttc taaaatctag gttggatagg agctccgaac 60

gggagccata gacggagagt tgatgccacc gcgcaatgga tgggtggatg ctcacgacct 120

ccgcgtgcaa caacaggggt aagaactcgt ccccttcctc tccggcggcg aggttacgat 180

cttcctctgc cgaccttgaa ctttaaaaat gagaac 216

<210> 40526
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C8

<400> 40526

gccgcgggaa cgaggcgcac gccgcctcca tgcgcgccta ccgctccaag atcgagaccg 60

agctcgcccg gatctgcgac ggcatgctca ccctgctcga ctcccacctc gtcccatccg 120

ccggcggcgc cgagtccaag gtcttctacc tcaagatgaa tggtgactac cacacgtacc 180

ttgctgagtt caagtctggt gcaaagagga aggatgctgc ggaaagcacc atgaatgcct 240

acaaagctgg taaggacatt gctcttgcaa atctgcttcc aaccaaccca ataaggctgg 300

gcct 304

<210> 40527
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D10

<400> 40527

ctcgcgctcg cagcggcggc gggcggcggc tgcttctccg tctcctcctt ccccgcaaac 60

ttgtctcgta ttcctagcgc aggcggggaa cactcccggc ctccgcccga gcggagcgga 120

gcgtttcgtc cgcgccgctg actccgagga gttcattttg ccgcgctgtc tccctgaatc 180

ctacacgtcc ttctcgcgtt tggctcgact ggcgcgttga ttccttcttc tttcgttgtt 240

gatgtgcaga tctcccattc tcttttaca agaact 276

<210> 40528
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D11

<400> 40528

ggcgagcagg atggaggacc tggaggccat tgtgatgctg gctgcgctat tcgttgttgg 60

gttgtgcacc acccccctca cgttccaggt cggcaaggga tccaagcctg gccacctgat 120

cctcaccccc aatgttgcca ccatatccga cgtggagatc aaagagcacg gtggcgatga 180

cttctccttt acgctcaagg agggcccgac tggcacctgg acgctcgaca ccaaggcccc 240

gctcaagtac ccccttttgca tccgctttgc tgtcaagtcc ggcggctacc gcatcgccga 300

cgacgtcatc cctgccgatt tcaaggccga caccacctat tagaccacac tcagcatcta 360

atcaatctct ggtgatgaat tagatttcaa aagagctcat ctagcgcaca tg 412

<210> 40529
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B4

<400> 40529

ggcagtgctg ccaaggcacc tgagtctgac aagagaactg ctgcccccgc tgaagcaccc 60

gaagccgcat gcacccccgt cggcgccgct ggcccatcga cgttgtctat gaagtctggt 120

ccagataccg ggccagtcac cgacttttca ccccctttt ccaccgtcga agagctgagg 180

cctttccctc catcattca 199

<210> 40530
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D12

<400> 40530

ctttatctcc tctcgatcga tcgcttcctc catcgaggcg gtaaagcgcc gcccagatcg 60

ccggaagcaa gcggcgacct caccagctcc gagcagcagc agggaggctc gtggaaccat 120

tagtcgtttt ctggcagcgg catggagggg ctgagctgga gaacggtgtg ttgtttatcg 180

gtgctctgtg ccgtgctgtt cttgcgcccg gccgagggca tccgcttcgt gatcgatagg 240

gaagagtgct tctcgcataa cgtggaatac gaggggggata ctgtccatgt atccttcgtc 300

gtcatcaagg ctgacacccc gtggcattac agcgaggagg gcgtcgatct ttgggttaag 360

gatcctaatg ggcgctaagt ccgtgattcc cgagataaga ctagtgaca 409

<210> 40531
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D4

<400> 40531

aaaaaacata aaaaaaaaca tacgaaaaca caaaaagatg gcttgcacaa acaaagcaaa 60

tgagaacctt ggggctcctg gtggtcttct gcatcgtgca tcgcgagaac gaagagtcaa 120

acggcatcga tgcgaaagcg tacgggcctg ctgggtactt ctacatcacc tcgttgggca 180

ccttcggcac tggcaagaca cacagtacga acgctgaaca tgaggtatg 229

<210> 40532
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D5

<400> 40532

cgcactgcag agagaggaag tattgaaaca gacggttcca gatgagaaaa acaaacatgt 60

agaagcaatt ggagcagttg agatggcaaa aaatgcattt acacacgaga cctattccaa 120

gcaccaggct gagaatgcta aggctgtgga tgccctttta tcaacaggca aaagttgcag 180

gcggtactcg aaacatgaaa tagagctcgc cactgattac ttttctgatg caaagaagat 240

tggtgagggt ggctatggga atgtatacag gtgtaccctt gaccacaccg aagtagctgg 300

taaagttgtt gaacaaagat tcga 324

<210> 40533

<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H2

<400> 40533

cccacgcgtt cgcgaatgga tccaagcccc cactctttgc tggcatcata gcacttgtga 60

tgagcatcgc aacgatggtc cgtctgaccc gcgagcatga tgcctgggaa ggttcttggt 120

gctgccatag gtggagctac cctttcagat agttaatttt atgttcaaga gctc 174

<210> 40534
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H4

<400> 40534

cactaaccag gtcattgcgc caacttgaac tgtggaagga gaagagctct ggcacgtatg 60

agaagaaggt gtatgtgctc cccaagcacc ttgatgagaa ggttgctgct cttcacttgg 120

gcaagcttgg tgccaagctg accaagctca ccaagtctca tgccgactac atcagcgtgc 180

cgatcgaggg ttcctacaag cctgtccact accggtacta ggcacacggc tt 232

<210> 40535
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H5

<400> 40535

gacagacagc acgaaagctg tgcaggaggc atgggcatcg gcgtgcggcg gcactgggaa 60

gcagacaatc ctcataccca agggtgactt ccttgtcgga caactcaact tcacaggccc 120

ttgcaagggc gacgtgacca tccaggtgga tggcaatctg ctggcgacca cggacctaag 180

ccagtacaag gaccatggta attggatcga gattctacgt gtggataacc tggtcatcac 240

cggcaaggga aaccttgacg ggcagggccc agccgtgtgg agcaagaact cctgcaccaa 300

gaagtacgac tgcaagatcc ttcccaactc gctggtgatg gac 343

<210> 40536
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-H6

<400> 40536

gngacggatg acatcctaaa accctaacca cgcgacgctc gccgactcgc cgtcacagcc 60

gcacctcaac cggagtcgaa gcgccattga tgaactccga gcctgccgtc gccgcagcta 120

gcgatgcaca agcttcttcc acgccgccgc tncttncttg acgcagncgg cgncgcgggc 180

cccctgctgc tcttctttcc acgcatgccc acgctgcgcc tgtctggtag gccgttcgta 240

gccatgcgtn ctggcggaaa ccctagccgt atccgtgcgc cgccgtggct gcactgtgac 300

gctgggtgga ggcggngact ctgttccgcc gaggctgcga ggcgcggggg cgatacagag 360

gagatggaga aggatggcgg gg 382

<210> 40537
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H8

<400> 40537

cggcgcaggg ccgcgcggac gcgcgcgagg ccacggggtt cgtgctccag aagtgcgaat 60

tccaggccga ggccgcgctc cgggacgcca agcgcccggc catccgcaac tacctgggcc 120

ggccctggcg cgagtgctcg cgcaccgtcg tcatggagtc ggagctcccg gacttcatcg 180

acaaggccgg gtacctgccc tggaacggcg acttcgggct caagacgctg tggtacgccg 240

agttcggcaa caccgggccc ggcgccagca cggcggggcg cgtcagctgg ccgggcttca 300

agaaggtgat cagcaaggcg gacgcgacca agttcacggt cgagaacttt ctgcacgctc 360

agccctggat cgatcccaca ggcacgccgg gtcaagtacg acctgttcac atgagcgccc 420

ggggatcgga ccggaggatg catc 444

<210> 40538
<211> 394

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H9

<400> 40538

aggccctcaa gggggtcacc atcatggagg gcgacgccga ggacctcccg ttccccaccg 60

actccttcga ccgatacatc tccgccggca gcatcgagta ctggccagac ccacagcggg 120

ggatcaagga agcctacagg gtcctgagat ttggtgggct agcttgcgtg atcggcccgg 180

tctacccgac cttctggctg tcccgcttct tcgccgacat gtggatgctc tttcccaagg 240

aggaagagta catcgagtgg ttcaagaagg ctgggtttag ggatgtcaag ctgaagagga 300

ttggaccgaa gtggtaccgc ggtgtccgaa ggcatggcct tatcatgggc tgctccgtca 360

caggcgttaa gagagagcgc ggggactttc cctt 394

<210> 40539
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A1

<400> 40539

agcttgccaa atatgtttca tgacaatgta aatgtggagt ctgctcttgg tccagcactt 60

aaatcagctt tcatggttat gagtcaaatt ggggggaagt tgcttgtctt ccagagtact 120

ttgccatctc ttggtattgg tcgtttgagg ctacgaggag acgatgtccg tgcatatgga 180

acggataagg agcatactct gagggtacca gaagattcct tctacaaaca gatggctgct 240

gaattcacaa aatatcagat tgcagtggac atattttctt tcaacgataa agtactcaaa 300

tataagcatc tttaacgatc ttt 323

<210> 40540
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A12

<400> 40540

atcggccgta gagcgagcag tatcccaagt ccacccagtc tctaatcaca ttactctcga 60

acgacaggtt ccttgcacca ctatatccag gaccgacgaa gtgatccagc cgacagtcat 120

ggagacgaag aaggtgctat gggcactgct agtaccagcc gtctcggtca cagtcgcgct 180

gagctggctc gcctacgagg caccatccga ggcgctcatc gtctcggccg gcggtgcggc 240

tggctcctag cgatagcgga gcgggctgca acgtcgtgct atccaccaga gcacttacaa 300

cttcatcact aactgctacg tggatatgac gaaggctctc ta 342

<210> 40541
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A2

<400> 40541

gagaagagct ctggcaagta tgagaagaag gtgtatgtgc tccccaagca ccttgatgag 60

aaggttgctg ctctccactt gggcaagctt ggtgccaagc tgaccaagct caccaagtct 120

caggccgact acatcagcgt gccgatcgag ggtccctaca agcctgccca ctaccggtac 180

taggcacacg gcttgcaact cactcgggcc gttgtgtgct atgaagttcg ctacactggc 240

ctgtcagata tcttttgcat gcatatgcat tatcatatac gcaggcgcgt agcacgtttt 300

cttatggtta tcgcttgaac tgaggggggg 329

<210> 40542
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A3

<400> 40542

aaggggtgcg gaccaactac ctggaactgt tggacaatta cgtaaacggc aacggggcct 60

ttatggccgt gaccataagg gaaaagggtt ccacacaatc caaccccact atgacttctt 120

ggggcgccat ttggaggaag gacagcaaca aaccgtttaa gggacccttc accgtccgcc 180

tcactaccga gggaggcacc aatgcccggc tacgacgatg tcatccctgc caactggaaa 240

gccaacaccg tctacaccga caaataaata actttattgc tgacaatact ttaagccgac 300

ctatgctaac tatactagat tgggttggat cccaaaccat gcattacaca tgcatgca 358

<210> 40543
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A4

<400> 40543

cggacgcgtg ggggcgtgca caaacaatgc gatgagagcc ttgttcctcc tggtcctctg 60

ctgcatcgtg catggtgaga aggaagagtc aaagggcatc gatgcgaaag cgtccgggcc 120

tggtgggtcc ttcgacatca ccaagttggg cgcctccggc aatggcaaga cagacagcac 180

gaatgctgtg caggaggcat gggcatcggc atgcggcggc actgggaagc agacaatcct 240

catacccaag ggtgacttcc ttgtcggaca actcaacttc acaggccctt gcaagggcga 300

cgtgacca 308

<210> 40544
<211> 186
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A6

<400> 40544

ttcacgcgtc cacccacgcg ttcgggcact cgtcaaaaaa catgcttgca taactcctcc 60

agtacgatcc tatggagatt atcacaggtg gagttgtcat acacgaagcc tatctatcta 120

ataatcccct gatccaaaag tgacctttat gacatgcata tggacgggca tatatattta 180

tataaa 186

<210> 40545
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A7

<400> 40545

gacagaaagt agcataaacg ctaccatgct tgaggaaggg cttgcccggc tcgaaagaag 60

caagagatgg gacactaggg agaggaagac ggctctccag aacctggaac agttccagga 120

caaggcaaag aaggaaaggc tgcggatttg gcagtacgga gatgttgaat cggacgagga 180

cgagcaggcc ccgcctgcaa ggaagcctgg aggtcgtcgg tagagactgg gcagcgtaag 240

gctgcagtct ggcatgctat gaaagttttg gacaaccaca aatgttggac tctgccggga 300

gttatagatg aagacttact gaggggtacc ggatttatat tcggctagaa gaagggaact 360

taacgaggcg aaatcacttt tgatat 386

<210> 40546
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A8

<400> 40546

cccacgcgtc cgcatgcatg catgcataac acctcgagta ggagttgaag tacatcatca 60

ttgatggtat atatatagag gaagcatgtc tatctaataa gtccctcatc caaaattgat 120

ctttatgtca tgtatatgta cgtgcatata tatatatata aaaatacgtc tccttttatt 180

aaaacaaaaa acccaagaa 199

<210> 40547
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A9

<400> 40547

cagtcagaaa atagtgggat cgagttgttt cactgcacga gcacatcctc cggcgaccac 60

cggcctccct ctccgtcctc tagcgaccga ccaacgcgcc gagcgaagat gtcgtggcag 120

acgtacgtgg acgagcacct gatgtgcgag atcgagggcc accacctcac gtcggcggcc 180

atcgtcggcc acgacggcgc cacctgggct cagagcaccg cgttccccga gttcaagccc 240

gaggagatgg ctgccatcat gaaggatttc gacgagccgg tgcacctcgc cccgaccggc 300

ctgatcctgg gaggcaccaa gtacatggtc atccaaggcg aacctggagc tgtcatccgt 360

ggcaagaagg gatccggggg catcactgtg aagaaaacag ggcagtcact catcattg 418

<210> 40548
<211> 134
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H12

<400> 40548

gcgtcgaggc ttgtaacaac tgggatgata tggagaagat ctggcaccac accttctata 60

acgaactccg tgttgcgcct gaagagcacc ctgtgctgct gacccaagcc ccactcaacc 120

caaaggctta caag 134

<210> 40549
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B10

<400> 40549

cggacgcgtg ggtgcccatg gccctctcga gtctcgctcc gtggcctggt ggccctgatt 60

gcaccggccc tccctcccgc tcgcccgagc ggggcagcgg cggcggcccc ggcaccccgc 120

gcgcggggtc ggacggggag aggggcgggg gtcgtggcgc tggcggcggc gctgccgtcg 180

gacgcgcagt ggctggagcg gctgccggag aagaagaagc ctctggacac gcacagcctg 240

ccgtgcatcg aggcgtggct gcgcagcctc gggttcacgc agtccctcga ggaccccgtc 300

gtctgggtcg tcgagaagcc g 321

<210> 40550
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B2

<400> 40550

cggacgcgtg ggggcgctgt cgtggacgtg ccggttcgct gctgaaccgg ggttgggttg 60

gaccctgttc gttttcgtct gatctagcac tagaagtagc ggtgatgggg tgtgtgtggt 120

tgtgtacatg ttcctggagg ccgttgtgat ctgcgtgtgc tattatcact tattcttttg 180

gtccatatac ggacccacat actggattgt tcgtatgtat aaccacggtg gagaggcgcc 240

tgttatatta ataaacac 258

<210> 40551
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B3

<400> 40551

gaaaatagtg ggatcgagtt gtttcactgc acgagcacat cctccggcga ccaccggcct 60

gcctctccgt cctctagcga ccgaccaacg cgccgagcga agatgtcgtg gcagacgtac 120

gtggacgagc acctgatgtg cgagatcgag ggccaccacc tcacgtcggc gggcatcgtc 180

ggccacgacg gcgccacctg ggctcagagc accgcgttcc ccgagttcaa gcccgaggag 240

atggctgtca tcatgaagga tttcgacgag ccggggcacc 280

<210> 40552
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F12

<400> 40552

cccccagcga tctggacaag gccactgaaa atattaagat ggacgaagat gagcagaatg 60

catcgagtct gacagaagat ggaagcacat tattacctct accagtacca gtaccactaa 120

gcaatgatat tgtaattatc ccaaagatag tgagaaattt tgatcaagaa gagaaacaga 180

tccaggattt gaaaagtaac atgtccactg ttaagtcttt catggagcag ttaaaactgc 240

tgtactctga agaccttaaa aagcttggtg atcatttgcg tattatttct catgcggctt 300

ctgggtaccg caaggttgtt gaggaaaacc gcaagcctta caa 343

<210> 40553
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F3

<400> 40553

caaaccctag cacacgcacc atggcggcgc agcagaagat ccggtggggg gagctggagg 60

aggacgatgg cggggacctc gatttcctcc tgccgccccg cgtcgtggtc ggacccgacg 120

agaacggcct caagaaggtc atcgagtacc gcttcgacga cgacggcaac aaggtccggg 180

tcacgaccac catccgcgtt ctgaaactcg ctcgggcgcg cctttcccgc agcgccattg 240

agcgccgcca gtggcctaag tttggggacg tcctctatgg aggactctgg ttttcatgtt 300

ttactatggg tttttacttg atgagtattc tttttttgt 338

<210> 40554
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F4

<400> 40554

gcaagcagca gcagcagtta cgacgacgac gacgacgaca tccaactccc agaaagccca 60

ttcacgtcgt cagccgtgcc gatgctgatg taatgggccg ggaaagggaa accaacgtcc 120

acttaattag cttcttttgt tacacaggac aggacaggac acaaaaacac cctcttttt 179

<210> 40555
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F5

<400> 40555

cggacgcgtg gggatcacac tcgcagagag aaggaaaaat atccccaaac cctaagtccc 60

gatctggagg gcgaaccctc gcggctgctg cgacatgacc ggcaagggag ccccaggggg 120

ccggatcgtg atggagctgt acaccaacga ggagcccaag accgaggaga actttcggcg 180

ctgtgcactg acgagaaggg cgtgggcaaa ttccagaagg cgattcacta caagggctac 240

acctt 245

<210> 40556
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F7

<400> 40556

cgagattcta cgcgtggata acctggtcat caccggcaag ggaaaccttg acgggcaggg 60

cccagccgtg tggagcaaga actcctgcac caagaagtac gactgcaaga tccttcccaa 120

ctcgctggtg atggacttcg tgaacaacgg ggaggtgtcc ggggtcacgc tgctcaactc 180

caagttcttc cacatgaaca tgtaccggtg caaggacatg ctgatcaagg acgtgaccgt 240

gacggcgccc ggggacagcc ccaacacgga tggcatccac atgggcgact catccgggat 300

caccatcacc aacaccgtca 320

<210> 40557
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F8

<400> 40557

ctcggcttct tctctctcgt ccatcaaccc agggggaagg agcgggaggg agcgagccat 60

ggtagtcagc acgttcaatg gacccgggat tgggatcggg ttcggtgtcg gctgcgggtt 120

cggcgtcggg tgggggttcg gaggaatgcc tcttaacatg ttcggcttgg gtatcggtgg 180

gggttgtgga tttggtcttg gactaggatg gggctttgga aatgcttttg gttgtcagta 240

tcgatcttca agagttcagt tccaaggcat tgaatttcag aagaaggcgg aaggagatga 300

tgccccaaaa gttgtttcac cggagcttgc tcaaa 335

<210> 40558
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F9

<400> 40558

cccacgcgtc cgcccacgcg tccgcccacg cgttcgcgga cgcgtggggc gaaggcataa 60

gccatcagtt tccaccgcac gtccggaccc cctctccggc gtgccgacgg tatccatggc 120

ggcggtggtg cgcggcgtct tgaggggcat caaggagaag ggactcacca acttcatccg 180

cgacgtccgc aacgaaggat acttcaaagg ccttctggac gggaaccttt ggcaaacgaa 240

aatccacaat attggcgcac acttggtagg agtggccaag tttgggacca aatttttgg 300

gaacctcctt g 311

<210> 40559
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-G10

<400> 40559

cggacgcgtg ggttcttcca gtgaagaggg atactttgta tcttgaacga gaacctttgg 60

tagatcataa cattcatcgg tggggcgtat cactttatgg gcgggatcca gccttgtcaa 120

cactacgacc acctggaata catggtgctg gcccgctact tacacagata acccaaacca 180

tgcaaatccc acttacctat gctgaagaca ttataggagt taaaggagca aatattgcgt 240

acatacgagc taatagtgga gctgttgtta caattcanga gagtttgggt agtccagatg 300

atattactgt tgaaataaag gggacatctt cacaggtaca agctgc 346

<210> 40560
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-G11

<400> 40560

aacagccgag cgatctcctc tccctctccc tctccgatcc attctccagc gcagcgaagt 60

aaacatgtct gaccgggcaa agatgtcgtg gcaggcgtac gtggacgagc acctgatgtg 120

cgagatcgag ggccaccacc tcgcggcggc ggccatcgtc ggccacgacg gtgccgcctg 180

ggcgcagagc acggcgttcc ccgagttcaa gaccgaggac atggccaaca tcatgaagga 240

cttcgacgag ccagggcacc tcgcgccgac aggcctgttc ctcggaccta ccaagtacat 300

ggtca 305

<210> 40561

<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-G12

<400> 40561

aagaaaaacc tgcactgcgg gagttagaat catctgctgg gaagcataac aataatcttt 60

ttgatggcca cccaagtaca ttgaaaagag taaaatcaga tggcactatt cttcatgaaa 120

ggaaagcttc tatatctggc tctggtcggt gccataatga accgataagt gcatcgcagc 180

ctgatgtaca aaatgggttt caattcccaa cttcagaatc cgattcactt catgaaaatg 240

aaatttcatc acctttggga agtggagtac cacacctaac gtatactccc acaagctctg 300

acgtgcttca tgtgccaaga gctaaagtta atattgcatg a 341

<210> 40562
<211> 362
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-G2

<400> 40562

atcacatcgt cactcactgc atcgttcgtt catccatcaa ctactggaaa ttagagagcc 60

ggatctcttg gtcggagaac ctgcgaggaa ggactaagga gtcgaagatg actgcggcgg 120

tgctgtccgt gcgcacgacg acgacgtcgc tgctagcagc agtcatcctg tgcctctgca 180

tcgtctccct ctcccccccgc ggcgccgctg ccgcgcgggt ctcccccggc gccagcccga 240

tcgtggccac ctgcatgacg ggcccgtacc cggagctgtg cgtgggggag ctgggacagc 300

ggctgctgga cgtgcagacg tcgatcgcgt ncgcggcgcc cgaccagcgc gcggccagga 360

tc 362

<210> 40563
<211> 143
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-G3

<400> 40563

caaacagcag tgaattgttc ttcttctcaa tgtatgcaac ganctgcaac tgacactgcc 60

cgagtctccc ggtttgaaga ccctgcgggg ggggcctttt gattcgaaga tgaccgcggc 120

ggtgctgccc ggcgccgata cga 143

<210> 40564
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-G4

<400> 40564

cgggatcaat gggttcggca ggatcggaag gctggtggcc agggtggccc tgcagagcga 60

cgacgtcgag ctcgtcgccg tgaacgaccc cttcatcagc accgattaca tgacctacat 120

gttcaagtat gacactgtgc acggacagtg gaagcaccat gaggtcaagg tgaaggactc 180

caagaccctt ctctttggtg agaaggaggt tgctgtgttt ggctgcagga accctgagga 240

gatcccatgg ggttccgttg gcgctgaata tgttggtgag tctactggtg ttttcactga 300

cca 303

<210> 40565
<211> 342
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-G5

<400> 40565

caaaggaggg ggcacacaca cacacacaca ccgttttcgt ccgcccgccg cgacgcgcca 60

tggctatggc tcgctccgtc gcgcacctct tctttcccat cctccttatc ttcaccgcgc 120

ccgccgtgcg ggccattacc gacgccgccg gcgggcccgg atacctccag gaggcgtgca 180

acaagacgct gttccccaag gtgtgcatgc acgcgctcaa ggacaaccca nagtgccagg 240

cggagacggc ggtcaccctc gcgccgctgg ccgagctgct cgtgtacgtg tcggccgagg 300

tgggcatgac cgtggccgcg ttcgcgcacc acgagctcaa cg 342

<210> 40566
<211> 307
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-G6

<400> 40566

ctgcatacag gcgcatagta ggtgctcttc ggtacctggt gaacacaaga ccggacatag 60

catttgctgt gggatttgtc tcacgtttta tggagaagcc tactaccgag catctgcttg 120

ctgtgaagcg agtgctgcgg tacgtancat gtacttcgga ctatggctgc tactatcaga 180

gaaggaagaa accagcaggc ttgaccgggt acagtgacag agaccatgcg ggtgatgttg 240

atactcgcaa gagcacgaca agagtggtct tcttccttgt gggcagtctc attactttgc 300

aatcaca 307

<210> 40567
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-G7

<400> 40567

ggccgccggc gctgtgggcg gcgccctggc catctcggag ctgatgccgg cgcagtataa 60

gcacacgctc gcgggcccct cactcaaggt ggatccccac accggtgccc tagccgaagg 120

ggtgctcacc ttcgtcatca ccctgaccgt gctctgggtc atcgtcaagg gcccccgcaa 180

cgtcatcctc a 191

<210> 40568
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-G8

<400> 40568

gcctcatgcg cgactccccc acgcacatcg gcttccgcac cagggccgac ggcgacggca 60

tctccctctt ctccgccacc aacgtctgga tcgaccacat ctccatgtcc aactgcgagg 120

acggcctcat cgacgtcgtg cagagctcca cggggatcac catctccaac tgccacttca 180

ccaaccacaa cgacgtcatg ctcttcggcg ccagcgactc ctggccgcag gaccagatca 240

tgcagatcac cgtcgccttc aaccacttcg gcaggggcct ggtgcagcgg atgccaaggt 300

gccgctgggg cttctttcac gttgtcaaca acgactacac gcact 345

<210> 40569
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H1

<400> 40569

cgcgtctgtc cgctaccct ccccgaccag atcgccacga gacgccgcgc gatccgaccc 60

aggccgacgc cgacgacccc tctcgccgcc ggcggccatg gcgtacggcg accgcgtcac 120

caccttcgag gactccgaga aggagagcga gtacggctat gtccgcaagg tctctggacc 180

tgtggttgtg gctgatggaa tgggtggtgc tgccatgtat gaacttgttc gtgtcggaca 240

tgataacctc attggggaaa ttatccgtct tgagggcgat tcagctacaa tccaagttta 300

tgaggaaacc gctggactga tggttaatga ccctgtattg agaacaagaa agcctctttc 360

agttgaatgg ggacctggaa ttcttggaac atttttgacg 400

<210> 40570
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-F11

<400> 40570

gaccgggcaa agatgtcgtg gcaggcgtac gtggacgagc acctgatgtg cgagatcgag 60

ggccaccacc tcgcggcggc ggccatcgtc ggccacgacg gtgccgcctg ggcgcagagc 120

acggcgttcc ccgagttcaa gaccgaggac atggccaaca tcatgaagga cttcgacgag 180

ccagggcacc tcgcgccgac aggcctgttc ctcggaccta ccaagtacat ggtcatccaa 240

ggcgagcctg gtgccgtcat ccgtggcaag aagggatcag gaggcatcac cgtgaagaag 300

acagggcagg cactcgtcgt tggcatctac gacgagccga tgacgcctgg gcagtgcaac 360

atggtggtgg aaaggctggg cgactacctt gcttgacagg gcatgntact actacgtacc 420

agcttgaatg catgtcgacg ac 442

<210> 40571
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H10

<400> 40571

cggacgcgtg ggggcgaaga aaatgcaggc ccccctgctg ctgctgcacg tccgtcaaat 60

agattggtag ggagcccaga gggtgatggg aatggcgaag gagcagcact tcgtgcttgt 120

tcatggcgaa aggcatgggg cctggtgctg gttcaagctc cgctggctcc tcgagggcgc 180

tggccaccgt gtcacgtgcg ttgacctggc cggaggcggc gtcgatccta ccgaccccaa 240

caccatccgg tccttcaagc agtacgacaa gcctgtcata gacctcatct tcaacttgcc 300

agacggagag aaggtgattc tgatcggaca tggcgcttgg aggctgaatg tgaaccatgc 360

aatgcatgga tttgttgaca ggatctgtca agcatttttt cgtg 404

<210> 40572
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D2

<400> 40572

cggacgcgtg ggtcttggcc tacgcgtaga cagacttcag gaatatgtcg atcttctgct 60

tctgcatcag cgtcgttatc atgcaggctg gtggaatgcc acagcgggac aggagcatgg 120

ggatgagcag gcgcaagatg actgcaagtg gcgccggatc ccgacattcg gcgactggaa 180

cctgcgggac gacatgcccg ttacctaata cttgcaagca gggac 225

<210> 40573
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-041-Q1-K1-D3

<400> 40573

caatgttctt tgaccaccga gcaaacccca gcctccgtta ctctccttcc tcttggctcg 60

cttcggctcc cgtcgtcccc ttccttgaga tctctaggat acgagcgcat tcgcatcgct 120

tcgcctccgc cgcggcctgg ggagatggcg ggtttgggaa aggcgatgta cgcggtggga 180

ttctggatcc gggagaccgg tcaggccctc gatcgcctcg gctgccgcct gcagggcaag 240

tacttcttcc acgagcagat ttcaaggcat cgcaccatca tgaatatctt tgacaaatcc 300

cttattggtg atgttcaagt cgggcaagga gcttccattt ggtatgggtg cgtcttaaga 360

ggggacgcan acaacataca aattggatct gggaccaata tacaagacaa ttctcttgtg 420

catgtggcta aatctaatc 439

<210> 40574
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D4

<400> 40574

gattatacgt gtggattagc gggggagtac cgggtcggga aacctccacg ggcatggccc 60

acgcgggtgg agcaagagct cctgtagcac taattacgac tgccacattc ttcctaactt 120

gctgttgatg gacttcgcga acacaggtga ggtgtgcggg gggacactcc tcaactgcaa 180

ggatgccaca tgaacacata ccggagcgcg gacatgcttg tcaaggacgt gaccgctacc 240

gcgcccgggg acagcc 256

<210> 40575
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-D5

<400> 40575

cacagccgga cgatccgagc agagaagggg aggtacctgc tacgactagc tagattccac 60

gcgcgatggc gcccaccagg atccgcgtgg gcttgctgag cttggcgctc gtggggctgc 120

tcatttgcca ccttgccacc accgccttcg tcggcaagaa cagaatccgc atcctcgaca 180

gcgtcgacga ctcggccggg gacaacaaca gctccgacgc ctcgggcggg gacaacagca 240

ccgactccga gtcggaaggc cgcgtcgtct attccgacat gaagctggct gatgagacgg 300

gatctgcgcc ggctccggca ccggcgccgg ngccgacgac cagttgaagc gaggaaggtg 360

gccaaaactg atggcccggc tactatcttt t 391

<210> 40576
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D8

<400> 40576

cttcgatttg cttcgggcgg accgtgtgct gatcgcgcgc gcctgggaaa tggaagtcga 60

agcgagggcc accgatccgg tacggtggcg cctcgcatca agagatgcga gatggggcgt 120

caagtcgaaa ccagttctaa tgataggatc agtgtatctc tgaagatacg gtatgggtta 180

ccctaccgta tttgtaaagt aatgatgccg gccgaacgac ctttcctaac gcgtttgggc 240

agaaattcgt tgctgtc 257

<210> 40577
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D9

<400> 40577

ctaatccaag acaaaacatg gctgtgaatg tgagaaccat gtggtcgtcg atgcgggcac 60

atgttgcgat ggctgtggcg ttggtgttct tggtgagcgg cgcatggtgc ggtcctccca 120

aagtcccccc aggcaagaac atcacggcca cctatggcaa ggactggttg gacgctaaag 180

cgacatggta tggcaagccg acgggtgccg gtcccgacga caacggtggc ggctgcgggt 240

acaaggacgt gaacaagccc cccttcaata gcatgggcgc atgcggcaac atccccatct 300

tcaaggatgg tctgggttgt gggtcctgct tcgagatcaa gtgcgataag cctgtggagt 360

gcttccgcaa gcccgtggtg gtgcacatta cggacatgaa c 401

<210> 40578
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-E10

<400> 40578

acaatgtgtt tggttgttgg atgctgagag attggttctc agctcagatg caagctgcgc 60

ctagcctgtg taggtttgtg ctggtacatt gagagctctt atttatttgc tttgattgca 120

attaaccagg atgaccatag ccctttgttt tggttttgct tgtttttttat aaagtttgca 180

ttgaaacaac cacttctgtt tgggt 205

<210> 40579
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-E12

<400> 40579

atcgtcactc actgcatcgt tcgttcatcc atcaactact ggaaattaga gagccggatc 60

tcttggtcgg agaacctgcg aggaaggact aatgagtcga agatgactgc ggcggtgctg 120

tccgtgcgca cgacgacgac gtcgctgcta gcagcagtca tcctgtgcct ctgcatcgtc 180

tccctatccc cccgcggcgc cgttgccgtg cgggtctccc ccggcgccag cccgatcgtg 240

gccacctgca tgacgggccc gtacccggag ctgtgcgtgg gggagctggg acagcggctg 300

ctggacgtgc agacgtccat cgcg 324

<210> 40580
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-E3

<400> 40580

cggacgcgtg gggccggcca tctgctacca ccagtgcgtc gtcagcaagt gcctctgctt 60

cccacccttt agcaaagaga aaacgatgtg catgaagagc tgctgcaaca agtgcttcca 120

ccacggcccg ccagcgcctg gtcctggccc gaagccgagg ccgccaatgc ctggtcctcc 180

gaagccgcct gccccgaagc cgaagccgag gccgccagcg ccaaagccac cgacgcccaa 240

ggcgccgcca ccgccaaaga aagccgtgtc cctgcccccc gggcagcgac gaggccaagg 300

ccgacagcaa aaactgattc atacgatggg atggatcggc cagtcatcat cagaagcact 360

catattagta tatacacatc gtaagtacgc gtgtacgtgt aacgtacgta ctc 413

<210> 40581
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-E4

<400> 40581

caaaataatc gccaccgctc tccgcaccga accgaagcag cggcgatgtc ggcggagaag 60

ccggctcccg tgcgcgtgct ctactgcggc gtctgcggcc tcccggccga gtactgcgag 120

ttcggccccg acttcgagcg ctgcaagccc tggctgcgcg cgcacgcgcc cggcgtctac 180

cccgacgacc ttgtcgccgt ctcctactaa cccggcggcg gcgacaagga cgtccacaag 240

gtcggggatc gccttcaggg cgtcgggatc tccgacagct ccaccggcgc cgcaggggat 300

gcttccgcgt ctaagcccca agaggcgaaa cgcctgcctg gtggttagct caag 354

<210> 40582
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-E5

<400> 40582

tttatatctt caccttttta catgttggtt tgtctgtctt ccttgctatc tgcaccaatt 60

atgtatatat caaacaacaa actaaaagat gggttaaagt aaaatttgat gcaatgccac 120

ttgcatagta aagtaatcac ttacctggtt aaatctttca agggggtaac aagggtcaaa 180

tatgttt 187

<210> 40583
<211> 373

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-E6

<400> 40583

caagcacgtc gcgaggtcgg cccgcaccat cccgccgcag cagacgcagg cgctcacgtt 60

ctgcgacacc atgtacatga acacgcagga caccatcggc gcggcgcagc gggccatcac 120

gttcaaggac accggcaccg ccaagatcat gctgcagctc gccgtccagg acttcgactc 180

gtgcgaccgc cccttcaccc aggccggcgt ccccaacccc atggggaagt ttgacaagga 240

gctcaaccag atggccaaca actgcatggc tcttgcanac atgatatgaa ccacgcatgc 300

aacctcaggc gtgaggtgcc atcgcatgca gggaatgctt gcattcattt ttcatttaat 360

taagaattca ttg 373

<210> 40584
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-E7

<400> 40584

gtcaaggcca agatccagga caaggagggc attccaccgg accagcagcg tttgatcttc 60

gctggcaagc agctggagga tggccgcacc cttgcggatt acaacatcca gaaggagagc 120

accctccacc tggtgctccg tctcaggggt ggcatgcaga tctttgtgaa gacactcact 180

ggcaagacaa tcacccttga ggtggagtct tcggatacca ttgacaatgt caaggccaag 240

atccaagaca aggagggcat cccaccggac cagcagcgcc tcatcttcgc cggcaagcag 300

ctggaggatg gccgcaccct ggcggactac aacatccaga aggagagcac cctncacctg 360

gtgctccgcc taggggtggc atgcagattt ttgtgaagac attgactggc aagaccatca 420

ccttggaggt ggagagctct gacaccattg ac 452

<210> 40585
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-E8

<400> 40585

tgatgacatt gacagttatg aacttgactt gtcaaaaggt agtcacacag gtggagtgtc 60

aaggatgagt tattcggatc ttgagagtgc ttctgattca gaaggtttta gtgaaattga 120

taatagtaga gagtccagat atggtaatag taaagagtcc agatatgata atggtagaga 180

gtccagaaat gataataata gagagtccaa atatgcagcc aaggttgagg atgaatttga 240

ggatcatcat tccctgagat cgactcatct tgctgattcc tggcaaaaaa ccagaggtcg 300

gagtggttcg aatgactaca gaagggcatc ttttggatca gagagtgatg atgagatcaa 360

ttcttatccg gacgaggaca ttgacaaagg tcctagaaat aatggaagcc gtagtcaggg 420

aagtaccaac agagcttttg tangcacaat gcac 454

<210> 40586
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-E9

<400> 40586

ctctgcccca ccaaagaaag aagaagattc aacggcacca ccggcagaag ccctacctcc 60

accttcattc aacgacatca tccttccacc tatcatggcc aacaaatacg catctccgcc 120

tcctcctcta ttccaaggat attaagctct atggagagat ggtcgaccaa gaatgaattg 180

aacaacaata tataaggtcg catgcgcaac caaacagcta catgtacatt gcaggcgtgt 240

gtgaaattgt ttatttattt tttgcat 267

<210> 40587
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F1

<400> 40587

aaagcatcga tcacgacaag atggcgtgca caaacaatgc gatgagagcc ttgttcctcc 60

tggtcctcgt ctgcatcgtg catggtgaga aggaagagtc aaagggcatc gatgctaaag 120

cgtccgggcc tggtgggtac ttcgacatca ccaagtaggg cgcctgcggc actctcatga 180

catacaactt ctttgctatg aacatgtccc ggtccacggg catgctgttc aatgacgtga 240

cctttactgt tctttgcgac agtcccatca cggttggttt cacatg 286

<210> 40588
<211> 289
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-F10

<400> 40588

cgcgaaaata atgaagagcc gcagcatggc attatcggcc gcgctcttgg tgctagccct 60

cgcgctagtg gcggccaccg ggcccgaggt agcggaggca aagaagaaga gagcggcgga 120

tagcggcgag gcggcggagg cgaanaagat ccaggacgac ttctgctcga cgctgtgcga 180

gggcaagaag gggacggacc tggtcgtgtg caaggagtcc tgcgctctct cccagcagtc 240

caacctggtg ctgttcggca ggatccagtg caagggcaag tgcaccgag 289

<210> 40589
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D12

<400> 40589

gccttaatta tcctttagaa ctttggctgg acatgcaact ttagatagcc ataaccgcaa 60

gctgccttgt cctattctca gaaaaataaa taaacaaaac cgttgattta tttatatttt 120

tccaactata taagctattt atgtcctgat gaagtttatt actgacattt gactgaacca 180

tcagctactt gtagcattca tctccagtct tgttacacat ggatttattg ccatctcttg 240

cctgttgagt tgcgcacttg ggttgaagcc taccagctgg atttttgctc tgccgcacct 300

gtgatgctac tgctgggggg caatggatat agcaataaca ccagctactg ctgggggca 360

atggatgtag caataacacc agcccatgct tgacacctt 399

<210> 40590
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B5

<400> 40590

actggctaac tcggactgca aactgaaaat atgtgacttt ggtcttgccc gtgcatcatt 60

taatgatgcc ccttcagcta tattttggac agattatgtg gcaacgaggt ggtaccgggc 120

acctgaacta tgtggttctt ttttctccaa atacactcct gcaattgata tttggagcat 180

tgggtgcata tttgctgaac ttctcactgg aaggccacta ttttctggga agaatgttgt 240

acaccaatta gatattataa cagatcttct tggaactcca tcatctgaga ccttatctcg 300

gatccgaaat gagaaggcca ggagatactt aagctgcatg cggaaaaaat atcccgtgcc 360

ctttactcat aa 372

<210> 40591
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B6

<400> 40591

gccgccagga gggagaggga ccgggagatg ctcctcccgg cggtgggcgg ggagcatgtc 60

tccggcgatg aggacgacgt cgcatccgac cacccccgtc atcggtgggc cgaagccgac 120

aacgacaacc gcgcgcgagc tccaccttca ccaccatccc accggcatcg aggcattctc 180

acgagtgata aggagctggg cgtggaagaa gttcatgact ggatggtgcg caactctcgt 240

acatatgaat actgcggcat cctgct 266

<210> 40592
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B8

<400> 40592

gagcatggaa agaaaaagcc tccctaaaac ttttgggggc gaaactggtc cttactgatg 60

ctgcaaaagg gataaaaggg gcctaagata aggctacaga gattttaaac aagacaccaa 120

attcttacat gcttcaacag ttcgataacc ctgccaaccc taaggtacat tatgagacta 180

ctggtccaga gatctgggag gattcaaagg ggaaggtgga tatattcatt ggtggaattg 240

gaacaggggg gacaatatct ggtgccggcc gttttctcaa ggagaaaaat cctggaatta 300

aggttattgg tattgagcct tctgaaagta acatactctc cggtggaaaa cctggtccac 360

ataagatcca gggaatcggt gcaggatttg ttccaaggaa cttggatagc gatattcttg 420

atgaagtaat tgagatatca agtgatga 448

<210> 40593
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B9

<400> 40593

agaggttgaa gcagttgata ggacaggaac gttcataggt tctttgtggg agtccaagac 60

caacatgggc tctgtgcttc tggaagctgg acttgccaag ctgagttcat ttggcttgga 120

taggacctca gatgcttata tcctaacaag agctgaacag tctgcgaagc aacagaagat 180

taagatatgg gagaactatg tcgagggtga aaatgcttcc aatggatcca cacctgaatc 240

taaacaaaag caaattctca aggttgttgt cacggaagtt cttggtggtg ggaagtttta 300

tgttcagaca atgggtgacc agagggtggc ttcaattcaa cagcagcttg catttttgaa 360

acttaa 366

<210> 40594
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-C1

<400> 40594

gcgagcagtc tcccaattcc acccaataac taataacatc tcctcgaacg ccaggttcct 60

tggaccacta tatccaggag cgacgaagtg atccacccgc cagccatgga gatgaagaag 120

gtcctctgcg ccgccctcgt cgccgccgcc tcggccaccg ccgtgctggc ctcggtcgcc 180

tccgaggcgc cctccgaggc gcccgccggc gcggacggtg gtgcggctgg ccctagcgca 240

agcggcgccg acgccgacgc cgtgcccgcc gccggggcgc tcgtcgcctc ctttctcgcc 300

tactacctnc actgagcgac gacgcgcggn gcggcaacgt tgggatgcat cgagtttggg 360

tcatacgatt aattaattgc ttttttttatt t 391

<210> 40595
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-C11

<400> 40595

ctgaggccaa atggtggaag aaacttgttc gagatgatca aagggcacct cactttgtga 60

aagttgattg ggacaaatgg gttgacgaag atgatgatgg tgctgatgtc aacttggatg 120

ggatggactt ctcgaatttt ggcggtatgg gtggtatggg tggcatgggt gatatggctg 180

gcttgggtgg tcttggtggc atgggtggaa tgggcggtat gggtggtatg ggaatggatg 240

attntgagga tgatagtgat gaagaggaag tgtcgaaacc tcaagctgcc ggacatg 297

<210> 40596
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C12

<400> 40596

ggcaagacta tcaccctcga ggaggagtct tcagacacca tcgaccacct caaggccaag 60

atccaggaca aggagggcat gggaccggac catcagcgtt tgatcttcgc tggcaagcag 120

ctggaggatg gccgcaccct tgcggattac aacattcaga aggagagcac ccttcacctg 180

gtgctccgtc ttatgggtgg catgcacatc tttgtgaaga cactcactgg caagacaatc 240

acccttgagg tggagtcttc ggataccatt gacaatgtca aggccaacat ccaggacaa 299

<210> 40597
<211> 449

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-C2

<400> 40597

aaatggggca aaaaggcaat gttctttgac caccgagcaa accccagcct ccgttactct 60

ccttcctctt ggctcgcttc ggctcccgtc gtccccttcc ttgagatctc taggatacga 120

gcgcattcgc atcgcttcgc ctccgccgcg gcctggggag atggcgggtt tgggaaaggc 180

gatgtacgcg gtgggattct ggatccggga gaccggtcag gccctcgatc gcctcggctg 240

ccgcctgcag ggcaagtact tcttccacga gcagatttca aggcatcgca ccatcatgaa 300

tatctttgac aaatccccac atgttcatag ggatgcattt gttgctccaa gtgcatccct 360

tattggtgat gttcaagtcg ggcaaggagc ttccatttgg tatgggtgcg tcttaagagg 420

ggacgcaaac aacatacana ttggatctg 449

<210> 40598
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C3

<400> 40598

ctgtcgccgc tgccgtaccc ggtgatcctg gtgctgctga tggtgacgct gctgctgggc 60

gcctcgtggt tcttcacgta cgacgacttc atcgaggagg cgtcgcagca gctgagctgg 120

gcgctgctgg gcgtgcccat cgcgctcgtc ctcctcatcc gctggatctc ctccgtcgac 180

tccttcgagg gctacctggg cttctacccg agggagagcc gctggaaggg ccgctacgag 240

cggggccccg ccgagggcag ctcgccctgg ggcgtcgcct tgctcgtcct cctcctcctc 300

gtgctcgcca gcttccactc caccatccac gacatgtggg ggccgtgaac ggccggatgt 360

gggtcctgct cctgttcgat tccacgcgcg cacgtatgcg attgtactgc tggttgctgc 420

ttgatcgatc gatggatcga tgattccatg tacatatt 458

<210> 40599
<211> 194
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C4

<400> 40599

gttatcctcc tcgatcttaa ttacaggtca tagctaagca ggtctgacag gatgtcgtgg 60

cagacatacg tcgatgagca cctgatgtgc gagatcgagg gccaccacct gacctccgct 120

gccatagtcg gccacgacgg cgccgtttgg gcccaaagca ccgcatttcc acaagtcaag 180

acagaaggaa gatg 194

<210> 40600
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C5

<400> 40600

atctgaacga gtgcccgcac ctgtgcgcgc tgtcctacga ttacctcaag aagaccgagg 60

gctacgagca gaacctgctc gccttcttgc agaacaagat gaacccggac gccctgctcg 120

tgcagctcat cgaggagatg gacaagtgca tcctcggcta cttcttcttc cactggaaat 180

atgcgaccca cataatcacg caggttctga cgcacgagca gcctagaaga aagctcagaa 240

gaatggttat ggaggccact aggaagatga ggtttgagag ggtgacgaga gagctgaaag 300

ttaccaggct gttcaccacg ctggtggagg agctcaaggc catcggtgtg cactgtcagc 360

acgaccacaa acgggcgggc acggacgt 388

<210> 40601
<211> 171
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-C6

<400> 40601

aacaccctga atttgagggt ataaaatttc ttctccaaat accaaccaaa ttcaggggtt 60

acctcttggc tctctctctc ttttcctttt gattaaaagt aagtgaatta ggcgagggtt 120

taattattta ttttgtcaaa acttatgtga gtcatgaaat gttgcctccn a 171

<210> 40602
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C7

<400> 40602

cggacgcgtg ggctgacacg tgggcgttaa caatacaagt gcacacaaat aaatacctgg 60

ctcgctagat tgccaagagc gggggccttt aagttattca ttctgctcgc catggtggcg 120

ctggctacgc tattctcgga cggctcatgc accacccctg tcaccttaca agccggcaag 180

gtctacaagc ctggccactt ggtccccacc cccaacgttg ccaccatcta tgacatgtag 240

atcaacgagc acggttgtga ctactt 266

<210> 40603
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C8

<400> 40603

gaatcagcag agccaaaatt tgctgttctg ttgcagagga gaggctggga cgcatcatac 60

tgcaaaaggg gtggactgca gtgtacaaca gttggggaag agccagtaaa tctgttctac 120

atgttcaaag atttgtcagc tgtgaatgtg aaggcgactt cgctgaacct cttacacgat 180

gacccagaaa tgctaggtta ccttgagcag accggtgatg ttgctcagga gggagacgtt 240

cttatctcac caatggagat tctggcatac aagttggacc tacaaccacc atcatcgcag 300

gaagagtagt tttagtttgt gaaaacagta catgcatatt gaacagtcct acatgacagt 360

gaagatggat ctttccgaaa tacttga 387

<210> 40604
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C9

<400> 40604

gggcaggaag aaatcgagcc tcactcgatc catcgcctcg ccgcagcaca cacgaggccg 60

gcggcgccat ggccatgaag ctggacatgt ccgcgctcga gaccaacttc gccaacctga 120

ccgccttcgg cggcgacgac acgtacttct tcgccgaggc ccccgacgtg ccgtccatgg 180

tgctccccat ctgcgacgac tttgacggct tccaggcggc caccaaggat atggtgaaga 240

ataagaaggg gacgaccacg cttgccttca tcttcgacaa gggcgtcatc gtcgccgctg 300

attccagggc cagcatgggc gggtatatat cctcacaaa 339

<210> 40605
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D1

<400> 40605

ataggcagca atcatgactg gtgtgaagcc ttctcgacct atcctcgaac atatgatctt 60

ctccacgcat gggcagtctt ctccgacctc gataaaagag gctgcagtgc tgaagacctg 120

ctcctcgaaa tggaccgtat cctcaggcct accgggtttg ccatcgtgag ggacaagggc 180

actgtcatcg aattcatcaa gaagtacctc cacgcgctcc actgggaagc agtagcggct 240

gcagatgccg agcccagctc ggaatcagag gagaacgaga tgatcttggt gatccggaag 300

aagttgtggc taccagaagc aggctcgcac acgtgattcc cttcccggcg tctgcagctc 360

agaagcgagg cgccagctgc accagccatg atttatttct agccttaatg cacacatgga 420

gatagattta ttattta 437

<210> 40606
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D10

<400> 40606

cagacgcatg gtacgtcggg cttacccctt tatctccagc cgggtaacac ttgccgcgct 60

gggctcttcc accggcggga ggatgtcgtt caacaagatc gtcgacatcg ggagccttgc 120

cctcgtgatc tacagggact actatggccg cctcgacgtg atcggcgatg tggtggtcca 180

gtacaaggta cttcgcgtac gcattgatct gggcaagggc ct 222

<210> 40607
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D11

<400> 40607

agccagccag ccagccagcc agccgcttgg gcgccatctc tctagagctt cgtaccctcg 60

aagagagatc cggcgcggcc caataaacac ccggctcact acagactcgc agatggccgg 120

cctcaggatg aagttcgtcg ccgtcgccgc catggccgcc gcgctcgtgg cgttcgccgc 180

agcgcgaggc tccgcccggt cccggtcgac gcgggcgtct aagatcaact actacctgct 240

cacgatactc ttatggacta atcatactgc gcgttcacgc ggatggaacc tgcgtccact 300

atcgctgaga atcccttgca gt 322

<210> 40608
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B4

<400> 40608

ccgaacccta gccccgggcc cacccttagc gccaaccccg ccgcgctcaa cgccgtcaag 60

ctatacctgc acatcggcgg ctcctccccc tgcgccaagt ggatcgtctt cgacagcctc 120

gccgccgcct ccttcgtacg caccggcgac gacgaggacg acgacgcgcc cgccggcggg 180

ccgtggtgcc tcgtcgtggg ctcgaagatc caggccaggg tcgggcccga gctgcagctc 240

aagaccttcc ccgcgcagcg ccgggtggat ttcgttgccg acggcgtatg ggcgcttaag 300

ttccgccacg ctgacggctt cggtgacttc tgcgcgaagt accacagctg tatgtttgag 360

aaca 364

<210> 40609
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-F10

<400> 40609

gaacgccggg ccgtttcact tgtcttcttc ctccgatccc tcccggcggc cggccgggct 60

cgggcgtttt ccccttttgt ttcccatgga ggacgccaag atggggaacg gctccaccat 120

ccgcgcggtg ctcgccatcc tccagtggtg gggattcaac gtcaccggca tcatcatcaa 180

caagtggatc tttcagaaac tggagttcaa gttccccctg acggtgtcgt gcgtccactt 240

catatgctcc tccatcggag cctacatcgc gatcaaagtc ctgagaacca taccgctgat 300

cgaggtggcc ttggaggacc gggggggggga gatattcccc atgtcgttgg tgttctgcgt 360

gaacatcggg ctggggaaac ggtagcc 387

<210> 40610
<211> 170
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-F3

<400> 40610

gcatcatgga acatcatcca tccgagctaa gtaattaggt cgaaaatgac ccgtgccagc 60

agggggagca gcagccggtg tgtgacgctg gtactgtacg gtctccgcct gctgcttctg 120

gttggggttg cgcaagcgga attggagttg gtgcctgctg atgaataata 170

<210> 40611
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-F9

<400> 40611

gcgtccggcg tactctgact ggctttactt cgttccatgg gggctctaca aggctctgat 60

ttggtccagg gtgaatttca tcagccatgt gatgctcatc ggagagaacg gatttgacca 120

gcctggaaat gagaccttgc cagtcgctct gtacgacaag ttcatgatag actacttcga 180

gaagtacctg tacgagctcc agtgcgccat acgcgacggt gcaaacgtct tctgctactt 240

cgcgtggccg ctgctggaca 260

<210> 40612
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A1

<400> 40612

cggacgcgtg ggcggacgcg tgggcggacg cgtggggacg ggcacaagat gcccgaggcg 60

cgcgacgagg acaggcaggg cctgggcctc aactgcctag aggcgccgct tgacgtcgac 120

atcaagaacg gagggcgcgt cgtggtcctc aacacccaga acctgccgct cgtcaaggag 180

gtcgggctcg gtgctgacct tgtcaggatc gacgcccact ccatgtgctc gcccggcttc 240

tcctgcgact ccgcctacca ggtcacctac atcgtgcgcg gcagtggccg cgtccaggtt 300

gttgggatcg acggcacgcg agtgc 325

<210> 40613
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A10

<400> 40613

cggacgcgtg ggctttcccg cggtgaggcc cgaccggagt ccacacacac acacacacgg 60

tgtcgatggc ggccgtaata aggagccgcc gcgtgtccgt tgtcttctac gtcgtcctcg 120

ccgcagctgc agccgcggcg caggcatcca ataacgtcac ctccgacgag gattactggg 180

cggagcgcgc cgaggtggct cggtcgcgca acctcgccgc ctacgtcagc gaccccgtgg 240

ccgccacgaa ccgcttcaac gcggacgtgc tgagggccac gacgcggcgg gcgctggcga 300

ggtacgatgg cccgtgcatg gcgaccaacc ccatcgaccg gtgctggcgc tgccgcgccg 360

actgggcgac ggaccggaag cggctggcgc aatgcgcg 398

<210> 40614
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A11

<400> 40614

gtcgtcggcg ccggataacg agtagagatg gaggagacgg cggcggtagc ggggacggct 60

gagaaggcgt cgtcgtacag gtactgggtg cgggaggcca ccggcgacgc cgcgccgctc 120

cccgtcccgc gcaagctcga caccgctgcc aacgggaacg ggaacccgcc gcccgtcggc 180

tccgtctgga atcaggctgg aacatgggag gaaaagaacc tcaactcatg ggccaatagt 240

agaataaagg atttgatggg ctctttaggt tcattggcct tccctacagg gaaggcatct 300

attgacgaag tgtccaagtg ctcaagcgac gcatttcagg tcattgtccg caacaagaag 360

agagtaggat ataactatga actaagcttg agatttagcg gtgaatggtt aatcaaagaa 420

gtaaacatga tgttcaaagg gcatttagac atttccgagg ttt 463

<210> 40615
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A12

<400> 40615

caaccaggtc gaccatacgg tccttttttac ctgtaacggg atgcagtaca ggaagaactg 60

gtggatggac gggatgccag gggcgcagtg tccgatcctg cctaacacca acttcacgta 120

caagtggcag cccaaggacc agatcggcag cttcttctac ttcccgtcca tcggcatgca 180

gcgggcggcg ggcggctacg gggccatcag cgtgggcagc cgacttctca taccggtccc 240

gttcgaccag cccccgccgg agaacgacca cgtggtgctc atcggagact ggtacaccaa 300

ggaccacgag gtgctagccc gccagatcga cgccggcaag ggcgtgggcc gccccgcggg 360

cgtgc 365

<210> 40616
<211> 71
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A2

<400> 40616

ggcccccccc tttttaaaaa aaactgtcga ccccccttctt ttttaaaaaa aaaaaaaaaa 60

aaaaactttt t 71

<210> 40617
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A5

<400> 40617

cccacgcgtt cggtcgctgc tcacggacgc cgaccgcctc atggaggcgc ggcgcacggt 60

ctcccacgag gtgcacggcg gcggcggggg cttcggcagc ccgacgtcgt cgtcctcccc 120

gtcctcggcg tcgtcctccg cctcctccag gacctcgcgc acctggtcct tcggcggcgg 180

ctcccactac tccgacagcc ctaccatgtg cctcacctgc gcccccgacg ccgactaccg 240

ccacgacaaa aaatgcgacg cctacacggc cgacgacgac tgttgggccg cctcgtcgaa 300

ttacaagagc ggcagcaggt gggcagccac agtggacgaa ggcgacggcg aggaccagca 360

gcagcaccag gggctcatgg acgacgcctg ggacgcccac tcggtgaagg acagcaccag 420

cggcacatg 429

<210> 40618
<211> 115
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A9

<400> 40618

cgaactcgtt ggcgagatcg ttctcgtttt ttttagcacc accattccca acgtccaggg 60

gcttctttat gactacttgg ggggcaatta ttcttacaag gtcttgaacc ctgat 115

<210> 40619
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-B1

<400> 40619

gagacgacga cctcgatcgc gttccctgta acgccaccac caccgtcacc gccatcgctc 60

gcccggatcg tcaacatggc agccggcctc cgtgtcctca tcgccgtcct cgccgtcgtc 120

tcggtctctc tccggcgcgc cacggcgact acggccccca ccgtcgtcga cgaggcgtgc 180

aagcagtaca ccaagtaccc ggagctgtgc gtcaagtccc tgtcgtccgc ggcgccggag 240

gcgaatgcga atgcggagcg gggcgggctg gcggggctgg ccgggctggc gctggcgcan 300

gcggcgcant gcggtgccga gacggtggcg ttcgtcaagg gcctggagaa aatgccgggg 360

ggcatg 366

<210> 40620
<211> 462
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-B10

<400> 40620

cccacgcgtc cgcaaatcaa accatagcat caatcatgtc tggtcgttcg tggacaataa 60

tggcgcctct cctggcgtcg atgctgctcg tcgggctcgc cgtgggctcc gaggaggagg 120

aggacggcgg cggcaaaaag aagccccacg tcaaccacgg caagtttaag gcggagccgt 180

ggacggacgg gcacgcgacg tactacggcg ggcgcgacgg gttaactgac accacggacg 240

gcggcgcgtg cggctacaag ggcgagctgg ggaaagacta cggcaccctg acggcggccg 300

tgggcccgtc gctgtacacc aacggcaccg ggtgcggcgc gtgctatgag ctcaagggcc 360

ccaagggcac cgtggtggtg acggccacca acgaggcccc gccgcccgtg aagcggcaga 420

agggcgagca nctcgacctc accataccgg gcgtcctcaa ga 462

<210> 40621
<211> 469
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-B11

<400> 40621

ggactgcaaa gtgctgccaa caagcgtgtt gttcgtgaac aaccagaaca cggtggtgcg 60

cgacgtcacg tccgtgaacc ccaaggtctt tcacatggcg ctgctgtctg tgaagaacat 120

ccggatgagc gggctcaaga tcagcgcgcc ctccaacagc ctcaacacgg atggcatcca 180

catcgagcgc agcagcggga tatccatcat ggacacgcac atcagcacgg gcgacgactg 240

catctgcatc ggacagggca acgacaacgt ggacgtggcc cgcgtgcagt gcggcccatg 300

ccacggcatg agcgtcggca gcttgggtcg ctactccggc gagggagacg tcacacgggt 360

gcacgtncgc gacatgacct tcacgggcac catgaacggc gttcgcatca agacatggga 420

gaactcccct tcctagagca acgccgcgca catggtcttc gagaacatg 469

<210> 40622
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-B12

<400> 40622

caacgctatg gccgtcggga gggagaggga ccgggagatg ctcctcccgg tggtgggcgg 60

ggagcatgtc tccggcgatg aggacgactc ggatccgacc acccccgtca tcgctgggcc 120

gctgtcgcca acgacgtccg cgcgcgtgct ccacctncac caccatccca ccggcatcga 180

ggcattctca cgagtgataa ggagctgggc gtggaagaag ttcatgtctg gatggtgcgc 240

aactctcgta catatgaata ctgcgtcatc ctgcttccga tcgccatcac cttttacacg 300

acatggtggt tcatccgctt cgtcgacggc ttcttctcgc ccatctacgt ccatatcggg 360

atacacctct tcggcctcgg gtttgtcacc tccatcacct tcatccttct cgtcggcggt 420

gtcatg 426

<210> 40623
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B2

<400> 40623

gcgactgcta gctactcgat cggatcctga ccacgcccgc ctaccaggcc accaccacca 60

ccacccacaa atccccaatg gcgaggcgca tcgccgtggc ggcagcgttc ctggcgctgg 120

ccgtggtggc taccgccgcg ctggcgcagg ctcccggccc cgcggcgacg ccgagcgggc 180

cgccgaacgt gacggcgatc ctggagaagg gcgggcagta caccatgttc atgcggctga 240

tgaaggagac gcagcaggac acgcagctga acagccagct gaacagctcg tacgccagca 300

gcggcggcgg gtacacggtg ttcgcgccca ccgacaacgc cttcaacaac ctcaagcccg 360

gcacgctcaa ctcgctgacg c 381

<210> 40624
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-F1

<400> 40624

caccgtcgcc gcaagaccgg agccctaatt ccaagcggta aacgatgagg ccgcacgcgg 60

tgggtatggg tggcggtggc gtggggaggc ggaaggcggg ggccgccgcc gccgcggcta 120

gtcgggagtg gatggtggtg ccggcgtcgg gcccggcgcg ggtggaggaa gcagggaagc 180

acgcggtgat ggcgcgtacg gggcttcccg cgcgcgatct cagggtgctc gacccgttac 240

tctcgtaccc gtccacgatc ctgggccgcg agcgctccat cgtcgttaac ttggagcgcg 300

ttatagctct gatcacagcc gcggaggtgc tgtttcctaa caccaag 347

<210> 40625
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-B6

<400> 40625

gagatagata aatatcccca aaccctagct cccgatctcg atggcgaacc cttgcgtttt 60

ggggacatga ccgtctgcgt ctccccgtct ggcctgatct ttaaggagct gtactccaac 120

gttgtgccca ataccgctgt taact 145

<210> 40626
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-B7

<400> 40626

cggacgcgtg ggaataattg ggaataaata gttcgtgaat ccctgaagcg tgcatatata 60

tattcctgcc aagataaagg taatggagtc gtcacgcagg ttccagccgg ccgtcatcct 120

gcttctcctg ctcattgtgt ccaccgatat ggcacaggca agggaatgcg agaagtacag 180

tgagcgattt gttggggcat gcatgatcgc agacaactgc gccaatgtgt gccgcggtga 240

gggcttcttg gccggcaggt gcagcacctt ccgccgccgc tgcatctgca ctaggcagtg 300

ctaaacaaga tcgctcgatc gctcgccatg catcgacaac ctattcttaa taacgttcat 360

tatctcgttc ttatttatga ccaatgtcat gtatgttctg gtgactgtca tgtatattct 420

gatgactggc atgtatcttg ttcatgtatg 450

<210> 40627
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-B9

<400> 40627

gattccgaga agagcagtat tacttcaaat tcatgtgctg gagatgatta tagagacata 60

gggtggggag acgagtcggg cagctgtaac tgcgaggata aaaccgtctc agaagcatta 120

gagtctggtg caaatgaaag acccttggag aaaaccatgg ttcctaatga aagaaagc 178

<210> 40628
<211> 94
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-C9

<400> 40628

tccacgcatg cgtgaagatg ttatatacca cacattctgg ttggctgagg gatggtcact 60

tcgggggtca ccaggttgca tgcggtgaaa gcac 94

<210> 40629
<211> 334

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-D10

<400> 40629

gaagcaccag gattcccaag gtccagcagc tcctgcggga ctacttctac tgctaggggc 60

cgaacaaggg tgtcaaccct gatgaggctg ttgcctttgg tgccgctgtg cagggaagca 120

tcttgagcgg cgagggtggt gacgagacca aagatatcct cctccttgat ggggctcccc 180

tcaccctggg tatcgagacc gtcggtggag tcatgaccaa gttgatcccg aagaacactg 240

tcattccgac caataattct caggtgttca ccacctacca gtaccaacat accactggct 300

ccatccaggt cttttgaggt gagctcagta tgac 334

<210> 40630
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-D12

<400> 40630

ggataattgg agatgtaact gaggtctttg atcgcagcac atggaagctt ggaaagatct 60

taaagatgct aaagaacaac tactttgtta tcaggcttgc tgattgcatc cagctcaaag 120

agttccacat atctagtttg agaatcccac gtggtctgga agctcctcaa agcaagccct 180

ttcatgcagc agataaggcc accggacgcg gtaatcgtcg acctgctgat ggcgccttgc 240

ccggcgcaag ggctgcggat caaatgggtc accgagccta cgagctgggg agcagcggca 300

agaagcggaa agcaaccgca gacgcccctc accatctggg cagagcagca gcagcagcac 360

attcccggaa tgtcgccgca gcctccaacc cgaacggcgg cagctacccg cacagctctt 420

cacaggccat a 431

<210> 40631
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-D2

<400> 40631

gccccgggct ccccctacgc ctcctcgccg gaatccgccc ccaagcgtgc cccacgctcc 60

cgtccgcagc agcagcagtc tccctccgag gaaggagatg acaaggagaa accaacacat 120

ttgagatttc tagtgtctaa tacggcagca gggtgcatca ttggcaaggg tggatcaacc 180

attaatgatt ttcagtccca gtctggggct cgtattcagt tatcacgtag caatgagttt 240

ttccctggta caaatgacag aatcatcatg gtttctggac tgtttgatga agtaatgaag 300

gccatggagc tgattcttga gaaactgttg gctgagggtg aagaattcaa cg 352

<210> 40632
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-040-Q1-K1-D5

<400> 40632

cacaatacga aacgaattaa tccccaatca acacagcaag tcagcaacaa gcaaagcagc 60

gacccgagag atggacgcga ggatgttcgg gctggagacc ccccgggtgg cggcgctgca 120

tcacctgctg gacgtgcccg acggcgacaa ggcgggcggc ggcgccacgc gcacctacgt 180

ccgcgacgcg cgcgccatgg cggccacccc ggccgacgtc aaggagctcg cgggagcgta 240

cgcgttcgtg gtggacatgc cggngctgag cacgggcgac atcatggtgc aggtggagga 300

cgagcgggtg ctggtgatca gcggcgagcg gcgccgggag gagcgcgagg acgccaagta 360

cctgcgcatg gagcggcgga tgggcaagtt catgcgcaag ttcgtgctgc cggacaacgc 420

cgacgtggac 430

<210> 40633
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-D8

<400> 40633

gaagatttga gcaaaatgta cttcagtgac ttcaagatga ttgacatcaa tggatatgca 60

tgctttgtga cgagaactgg ctacaccggc gaagatggtt ttgagatctc tgttccggca 120

gagaatgcag tggatcttgc agaggccatc ctatagagat cggaaggcaa ggtgcggctg 180

accggcttgg gcgcccgtga cagtcttcga ctggaggcag gcctgtgcct 230

<210> 40634
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-040-Q1-K1-D9

<400> 40634

ctgactcttg ggcgatcacc cgccatgcac attgcagtcg aatgttcttt caaaggtgtt 60

tggtgggact gcaaagagcc tggccacatg gctaacagct gcccaaatga agggatatgc 120

cagaactgtg gcaagtccgg tcacattgca agagactgca ccggtccacc attgccggca 180

ggagaagtga tgctttgcag gaactgctac aaaccagggc attttcgtga ggaatgcacc 240

tatgagaagg cctgcaatat ttgcgggttg ancggccacc ttgcccgtaa ctgcaccaat 300

gatcctgttg gcaaccaggg caatagtggt ggccattttg c 341

<210> 40635
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-E11

<400> 40635

atcgccgccg tggtcccggc gctccgccgc aacctgcggc gcaaccgagt ccacctcgcg 60

cgcgcgcccc gcctcgccca gctccactgg aactgccccg cgcatctcgc gacgctagcc 120

accccgcgcc gcttcgatct cgtcgtcgcc gcagacgtgg tctacgtgca ggagtccgtg 180

ccgcacctca tcgcggccat ggatgcgctc gccgacgccg agcgcggcgt ggtgctgctc 240

ggctaccaga tccggtcgcc cgaggcgcac caggtgttct gggagaccgt tccggctgtc 300

ttcccggtga tcgagaaagt ggcacgggag cacctcgacc ctgagtacgc ctacgaggaa 360

tccgatgtat tcatactccg aagaagcccg cgtcagtgag gtcaggtggt gaacttttgc 420

cagcagttta ctccccgat 439

<210> 40636
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-E12

<400> 40636

cgagatcacc aggctccagg agaagtacgg aatcgggtcc aagacgcccg gcccgggctc 60

cagcgactga gcggccaggg tattgcctct gcagcctctt gtatgatgaa gagcaatcaa 120

aaggaacaaa ttggttgcgc tgtgctgtgt tacatccagc gtcgctaatt actctgttgt 180

tattcaggct ccataacaat tgaatagata tgtgcttgtc t 221

<210> 40637
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-E2

<400> 40637

cgacgatggc gtcgaataag acggtcctca tcgtcgcggc gatgcttctc atcacgctcg 60

tgctggaggc cgcccctccg gcgaccgcca tggactgcaa ggccgggtgt gacgaggtca 120

cgggcccact ccacatgagc atggaggact gcatgaagag gtgcaaggag atcgctgcta 180

agcaggggcc tagggaccct tacaaggata acaaacttga catcccatga actaattaat 240

gctcctatat catctgccta tccatgcatg cattgcattg cgtatgcaca ctgtgcgtgc 300

ctgcccacaa agttcgacaa cacaccgatc tcgacggatt tgtaatcgtg tccactcgat 360

cgagagatcg atcgatgctt gttattatat tcggattcca cattatatat aag 413

<210> 40638
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-B3

<400> 40638

caataccgat ttccggagga gggtcctcat cggtctagtg gcgccggaga ggcttccaga 60

catacccccct gatgagatgg ctagcgacgc aaggaagcaa gagaacatgc agatcaagga 120

gaaggctctg ttcgactgcg agcgtggagc ggttccaaag gcgacgacgg accagttcaa 180

gtgtgccata tgtgggcagc ggaagacgac ctactaccag ctgcatactc ggagtgctga 240

tgaaccgatg acgactgtcg ttacatgcgt tgaactgcaa cattcactgg aagttctgct 300

tgagtgcatc ccttggtgaa gtgtttacct agttgtgctg aacacactat cctggtgtga 360

tgtgtgtgct tctgtatgtg ttactggaag ttcgacaggg caggctttat ctaactaacc 420

ttt 423

<210> 40639
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-E5

<400> 40639

cccactcctc cgaagcaact gaaaacaggc tatcgatctc ctctgcctct ccctcttcga 60

tcgattgggc agcgcagcga agtaaacatg tctgaccggg caaagatgtc gtggcaggcg 120

tacgtggacg agcacctgat gtgcgagatc gagggccacc acctcgcggc ggcggacatc 180

cgcggccacg acggtgccga ctgggcgcag agcacggcgt tccccgagtt caagaccgat 240

gacatggcca acatcatgaa ggacttagac gagccctggc accttgcgcc gacaggcctg 300

tttctctgac ctaccaagga catggtcatc caaggcgagc ctggtg 346

<210> 40640
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G6

<400> 40640

gacatgatac atgcatgcat cccattgtat gtgctcaaga acataccata gcagttgtgg 60

ttctggcagt gtcctggaat atatatttat gccgttcacc agactggttg accatggcta 120

cagcctacaa ctttatagat cgattgtgct tcaatcaggg atgttatttt gttttgtatc 180

tgagacgttt taaaggtgca tgtggtctta tggtctgttg taccct 226

<210> 40641
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G7

<400> 40641

gcagtgatct actccaccac caccaccaag ctcaacaaca gccagctcgc gaaaataatg 60

aatagccgca gcatggcatc atcggccgtg ctcttggtgc tagccctcga gctagtggcg 120

gccaccgacc cacaggtagc ggaggcaaag aagaagagag cggcagagag cggcgaggcg 180

gcggatgcga agaagatcca tgacgacttc tgctcgacgc tgtgcgaggt catgaagggg 240

acggacctgg tcgcgtgcaa ggagtcctgt gctctgtgca acaggccaac ctggtgctgt 300

acggcaggat ccagtgcaag ggcaagtgca c 331

<210> 40642
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H1

<400> 40642

gggtttttga ttttagccgc cgccgctgct catcttacat ccctcgagaa gacgcctgct 60

cctcgcggat cgatacgatg gccgtcttgt gcgacctcca caccgtcgac ggcctcaagt 120

ccctcgaggc tcacctcgcc ggcaaaacct atgtgtctgg tgactccatt actaaggatg 180

acattaaggt cttcgccgcg gtgccgtcga agcctggcgc tgagttttct aatgccggcc 240

gctggtacga gaccggctct ggtgctgtag cctcaagat 279

<210> 40643
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H11

<400> 40643

tgtggaacta caaagcttcc gctcgctatt ccgaggatcc ttgaacttgc tgaagaggtc 60

ctgttgccac tcgctgaaat gaaatactgc cgtgcaacgt tcatattccc tgaagcacac 120

ccttccccac acaagaactt cgctgacgag gttgtcttcc tgaatcactt cttcggtggc 180

ctcaagtccg gtggcaatgc tcatgtgatt ggtgactatg cgaagcccgg gcagaagtgg 240

cacgtctact acgccgctga gcaccctgag gagcctgtcg ttactctgga gatgtgcatg 300

actgggcttg acaagaagaa agcttctgtc ttcttcaaga acactg 346

<210> 40644
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H12

<400> 40644

gacgttcaac gacggtgggg acacgccgct gcaggtgtgc gcccgccatc tacgacgagg 60

ccatggttct tcaatagatc cgtcgtcgtg ggctactaca agaaccgcgt caaggtagag 120

tatcccgctt gttgctttat gctaccgctg catgcagtct aggtgttcag tgaaatgtca 180

atgcaatttt gctattgttt tgcgattgat tgctatgtgc tagcgtctgt tgtatggtgg 240

tgagttacga ggccattgag ttccttctgt cgcggaaggg tacagtcaaa gttttgtgat 300

tgactgctat gtgcta 316

<210> 40645
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H3

<400> 40645

gcttaattgc gccactggtc ggtatcctcc tcttgcattg cattgcaggt cgtagttgag 60

cagcagggac cactgcacag gatgtcgtgg gagacgtacg tcgatgagca cctcatgtgc 120

gagatcgagg gccaccacct gagctctggc ggcatagtcg gccacgacgg cgccgtttgg 180

gcccagagca ccgcattccc acagttcaag ccagaggaga tgaccaacat cattaaggac 240

ttcgacgagc ctgggtttct ggccccgatc gggctcttcc ttgggcccac caagtacatg 300

ggcat 305

<210> 40646
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H4

<400> 40646

tgtggaacta caaagcttct gctcgctatt ccgaggatcc ttgaacttgc tgaagagctc 60

ctgttgccac tcgctgccat taaatactgg cgtggaacgt tcatattccc tgaagcacag 120

cctttcccac acaagaactt cgctgacgag gttgccttcc tgaatcgctt cttcggtggc 180

ctcaagtgcg gtggcaatgc tcatgtgatt ggtgactctg cgaagccctg gcagaagtgg 240

cacgtctact acgccgctta gcaccctgag gagcctgtct ttactctgga gatgtgcatg 300

acttggcttg acaagaagaa agc 323

<210> 40647
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H7

<400> 40647

ggcgatgact tcttctttga gctcaaggag ggcccggtcg gcacctggac gcttgacaca 60

gaggccccac tcaagtgccc ggtgtgcatc cgctttgccg ttaagtctgg cggctaccgc 120

atcgccgatg atgttatccc tgaaaatatt aaggccgaca ccacctacaa gaccaccctc 180

aacatctgat catcctctta tgaggaataa tattgtgaaa gagctcatct gatccatgtg 240

ccagcgagct aatatttaat ttttgagcta tggttattct atggcaccac accatccaag 300

aaataaagta tgttacatg 319

<210> 40648
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H9

<400> 40648

cgagcgcgga acccgaccca tcaacgatcg cctgattggc gtggatcgat ctgcccagat 60

cgacgcggac atcacccctg gggttctggg actccacaac tctaatgcgt ccgatgcacg 120

taccgtaggc gacaccgggc atgacgcacg caggatgaca cagttgacca agatctgcgt 180

ggacagcctt gacggaccac cagaaagacc t 211

<210> 40649
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-A10

<400> 40649

gacatgcctg tctactgtgg acagcttgga cagaccgacg tgaataggct aacgctggac 60

agtacaatgg atccctctgt caagaaccat gtcaaggagt tcgagaagaa cttatgctgt 120

taagcaccca tcttgctcaa tcgccggaaa tcaccatatc gaccagatca caacaattct 180

tgacgtgcaa ggagtgggga cgaaccaatt cagttaacct tcaagggagc tcattggcat 240

gcttcagaag attgatggcg acaattatcc aaagaccctg tgccgcatgt acatcattaa 300

tacaggccac ggtttccggc ttctattggg cacccttaag agctttttg acccaaagac 360

cactgcat 368

<210> 40650
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-A11

<400> 40650

atcgatcacg acaagatggc gtgcacagac aatgcgatga gagccttgtt cctcctggtc 60

cggttttgca tcgtgcatgg tgagaatgaa taatcatagg gcatcgttgc gaaagcgttc 120

gggcctgggg gtgtctttta cattaccaat tttgggcgcc ttcggcaatg gcatgacatg 180

acagcacgaa agctgtgcat gatgcattgg catttgcgtt cggcggctct gggtagcata 240

caattcttat accctatggc gactttcttg tcgtacaact caactttac 289

<210> 40651
<211> 277

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-A3

<400> 40651

cagatctcag agggttggtg tcaggtggcg tcgccggccg gccgtcgtgg aacagggaac 60

cgcgtgtgga ggacgaggat tccctctgta gcactgcact gcactgcact gcaagttgtt 120

gtacacaagt gcatgtgtat gtgtagtagt ccggcctccg ggcgggaggc gccgacccca 180

tccgatggcg acgattgggc atgctatatg gatgatcgat tagcccacac tgcacgtgaa 240

tgaaggagag ctgtggccaa cgattagccc accacac 277

<210> 40652
<211> 151
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-A9

<400> 40652

cagatctcat agggttggtg tcaggtggcg tctccttccg gccgtcgtgg aacagggaac 60

cgggtgtgga gtgacttgga ttccctctgt agcactgcac tgcactgcac tgcaagttgt 120

tgtacacaag tgcatgtgta tgtgtagaac t 151

<210> 40653
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-B1

<400> 40653

tgagcatcta aagagaccag agaactgggc actagttgaa aaggcaaaat acatctacat 60

tgctggattt ttccttacag tgtcgcctga ttctatccag ctagtcgctg agcatgctgc 120

agcaaataac aaggtgttcc tgatgaacct ctctgctccc ttcatttgtg agttcttccg 180

tgatgcccaa gagaaggtcc tcccgtatgc tgactacatc ttcggcaacg aaactgaggc 240

aaagatcttt gccaaagtca gaggatggga gactgagaat attgaggaga ttgctttgaa 300

gatctctcaa cttcctttgg cttcaggcaa gcaaaagagg attgctgtga ttactcaaag 360

tgctgat 367

<210> 40654
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G4

<400> 40654

gctgaccgcc gcaatgggcg cctccgagag ctgcgaggac gcgtggaagg gcgaggagga 60

ggatgtcccc gtcgccgcgc acgacaggga gtacgggcgg atggcgcaca tcgccttcgg 120

attcacacac cacgccgtcg tcgccgccgg cggcgcatga atcgatgaat tattatatat 180

atatatgcat gctatctact atgatcgagc gcttctcgac cttcttgcat cgatctgcat 240

gcatattata atttatatta tattgatgc 269

<210> 40655
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E2

<400> 40655

ggaaaccaga gctcctgact gttcctctct ccctcctcac gggcgggctc cgtctgttcc 60

gtccatgcac cgccccggtc gtctcccggg cagatccctc tcctgcaagg tttctttgcg 120

agtggccgga gaagatgatg ggcgggttcc tctccagggt tctcctgctg gcttttggct 180

atgcctatcc tgcctatgaa tgctacaaga ccgttgaact gaacaaacca cagattgagc 240

agctcatatt ttggggtcag tattggattt tagttgccct gttgacagtt ttggagagat 300

ttggagaatt tacaatatca tggctaccgt tttactcaga agcaaaggtt gttgtctttg 360

tatatttggg gtaccctaag acaaagggaa ctacgtatgt ttatggaact ttctttaagc 420

catata 426

<210> 40656
<211> 90
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E3

<400> 40656

ggccaatgat gattgcaaat ctctttctag tgcatctcac atgtacatta tatactacta 60

ttccacacgg gtacatgaca cagtttcaca 90

<210> 40657
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E4

<400> 40657

cgatcccaac cctgtgcccg ccaagtacgt ggccaagatg aaccagatcc gcggctacgc 60

cggcaacggt ggcctcaagc tcggcgtcgg cctcgagagc cacttcagca cacccaacat 120

cccgtacatg aggagctcgc tggacacgct cgccaagctg aagctgccca tgtggctcac 180

cgaggtggat gtcgtcaaga gccccaacca ggtcaagtac ctggagcagg tgctcaggga 240

aggcttcgcc caccccaacg tcgacggcat cgtcatgtgg gcagcgtggc atgccagggg 300

ctgctacgtc atgtgcctca cggacaacag ctttaagaac ctccccgtgg gcgacctcgt 360

cgacaagctc attgccgagt ggaaga 386

<210> 40658
<211> 152
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E5

<400> 40658

gggacatcag caagctgaac atggccgtcg ccatgtacat ggctcaaggt cctagactgt 60

ggcctcctat caccgaattc ttgggtatgg caagctccat cagcccatgc acgaatgtgt 120

tctgagggct tccattgact aacgggacac cc 152

<210> 40659
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E8

<400> 40659

ggagttggtg cctgctgatg caatggcgat gactatggat catgagccgc cgcaggagtg 60

cgcgaccccg gtgagcgtgg aggatgcgtg ccgcggcacg ttagagacgc acgccggcat 120

ggcctactac cactgcatgg cgtcgctggt caccgacccg cgcagcaagg acgccggcaa 180

caagaacatg cacgcgctgg cggtgctggc caccaggatg gccattg 227

<210> 40660
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E9

<400> 40660

agcgaaagct tgcattgtaa cctgtggagg cctttgccct gggctcaata ctgtcatcag 60

agagttggtt tgtggcttgt cccacatgta caacgttagc aatgtcttcg gaatacagaa 120

tgggtacaag gggttctatt cgagcaatta tcttcccatg acaccaaaga gtgtgaatga 180

tatccacaaa cgaggtggta cagttcttgg aacatcacga ggtggccatg ataccaaaaa 240

gatcgttgac aacattcaag atcgtggaat taatcacgta ttcattatag gaggagatgg 300

aactcataag ggtgcatatg agatttacaa ggaaattcgg aaacctggtc tacaagtagc 360

tgttgctggt attcccaaga ctattgataa tgatatagct gttatagaca agtcatttgg 420

ttttgatact ggtgt 435

<210> 40661
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F12

<400> 40661

cgatcacaat aagatggcgt gtatagacaa tgcaatgaga gccttgttcc ttttagcgct 60

cttctgtgtc gtgcatggtg agaaggcaaa gtcaaaggac aacgatgcaa aagcgtccgg 120

gcccggtggg tccttcgaca tcaccaagtt gggcgcctac ggcaatggca agacggatag 180

cacgaaggct gtgcaggagg cgtgggcatc agcgtgcggc ggcaccggga agcagacgat 240

cctcatcccc aagggcgact tcctcgtcgg accactcaac ttcacaggcc catgcaaggg 300

cgacgtgacc atccacgtga atggcaatct gctggcgacc acggacct 348

<210> 40662
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F2

<400> 40662

cgaaacaccg caaccctccc tcgatctagc cgccatggcc gcgcgcgtcc ccggttccct 60

cttggctgtc ctcctgctca tcctcgcgac cgcgtccccc accggcgccc tccgcttcga 120

cctgcgttcg ggccacacca agtgcatctc cgacgacatc aaggtgggcg ccatggccgt 180

cgggaagtac caagtcatgg cccccgacgg cgtcgcctct tcgtcgtcgt cacagcagct 240

tccggactct caccgcatct cgctgcgggt cacctcggcc ctacgcaaca gtctgcacta 300

cgcggagaac ctgcactcgg gcaac 325

<210> 40663
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F3

<400> 40663

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggct accctcgtcg 60

tcgtctgact caccccgcct tcacgcctcc ctcaccaaat aaggtcccgc ccttttccga 120

cattcacagg ggggacagga aatcagcggc catggcctcg attccggcga cgaccttcgc 180

cgtcatctta tccgtcctct tctgtgccgc ggctggcacc ggcgtcgaca acgacctccc 240

cgactacgtc atccagggcc gcgtctactg cgacacct 278

<210> 40664
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F5

<400> 40664

cccacgcgtc cgggaatatc tacaacgaga aaggcaaggg tctgctcgtc tagagaattt 60

tgcttctgca ctcgaactga ttggacaaaa gctccaaatg gatacactgc aaagtcgact 120

tgatgcagag ttccttctag ctcatatgtg ttcagtcaag tttaatgaat ggatcgtggt 180

gctagctact ttattgcggc gtgcagaggt tatggtggat ctctttaggc atgatttgcg 240

attgtggaaa gcatatagca tttactctac agtcacatga tgtattcaca gaatatcttg 300

a 301

<210> 40665
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F7

<400> 40665

ctctctctct ctttcatttc tatagccagc aggtatcagg caggcaaccg gccggtatat 60

tagtagatct tcgatcgttc atgcaagcta ataagtcagt aagcagcagt aggtcgaaaa 120

tggcgatgag gtcgctagcg ctactggacc tcctcagcct gctggttgtt ggtgtggcgc 180

atgcggtgga gttggagatg gagttggtgc ctgctgatgc aattgcgatg actatggatc 240

atgagccgtc gcaggagtgc gcgaccccgg tgagcgtgga ggatgcgtgc cgcggcgcgt 300

cggagacgca cgccggcgat ggcctacgac cacttgcatg gcgtctgtgg gctgccgacc 360

cgtgcagtaa ggatgccggc aacaagaaca tgcacgcgct ggccgtgctg gccaccatga 420

tggccattga ccacgc 436

<210> 40666
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F8

<400> 40666

cagctacgcc accaaaatca tcatctgatc caccgtcgac accagcagct acaccaccgg 60

cgactccatc cccatcatct taatcacgaa ggatatttca aaagcagtag tagtttagtc 120

aaattagata tgcgttttag gattctagtt gatatgcgtc cattattttg ttcacatcga 180

atgcagcagt gtgttagcta tgtagttgca tacctatcat aactaagtct attagaagta 240

tttctaataa tatttatgat ctgtcatcaa taaaatgtat gcaacaatac gactataaaa 300

aaaaaaacta ataaaatatt aaatgagaaa taataaaaa 339

<210> 40667
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G1

<400> 40667

aatcaacata tgcaagttgc agactgagta tgcaagatta ggcaatcgac ctccacacat 60

cagttttggt ctagcattag ttctgatcgt ggtgctttcc ttgagggttt tgaattgctt 120

ggttcaagaa aagcaaaaaa tatatttctc ctttctactt caacatctag cgatgtatct 180

gcatgtaagc tcttcgttgg tatcgaggct acatccagat acatcactag atgttgaatt 240

ataaaggaga aatatatttt tggtagtttc gtcaatccta aagaagatgg taagaattgc 300

aatgcaaatg caggatccac agataaagaa cgtgttcaat tgcttcattt gaatttatta 360

acttttgggc 370

<210> 40668
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G11

<400> 40668

gctgaccgcc gcaatgggcg cctccgagag ctgcgaggac gcgtggaagg gcgaggagga 60

tgatgtcccc gtcgccgcgc acgacaggga gtacggtcgg atggcgcaca tcgccttcgg 120

attcacacac cacgccgccg tcgccgccgc cgccgcatga atcgattaat tattatatat 180

atatatgcat gctatctact atgatcgatc gcttctcgac cttcttgcat cgatctgcat 240

gcatattata atttatatta tattgatgcc 270

<210> 40669
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G12

<400> 40669

cggacgcgtg ggcggacgcg tgggggcgca cacggatggt gttccacacc agtgcccatg 60

ggacacaggc ctagccaagc agcgctaccg tatatctaca tgcgaccgtg ggacagcgtc 120

agccggaggc cggagcagct cgatcgggta gttgccgcgc gaccgtcaga gacctctgtt 180

tctttgggtt gggttcggtg tttctctttc tatttatgtt ttactaatta gttgtccgtg 240

tgttgcgacg gtacataaac accattgata aagcattagt agtaattaat tttagatcac 300

ttcatgagat gcgctctgcc gacatgagga aaaactcatt catttttat t 351

<210> 40670
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E12

<400> 40670

caaaccgacg atggcgtcga ataagacggt cctcatcgtc gcggcgatgc ttctcatggc 60

gctcgtgctg gaggccgtcc cggcggcgac cgccatggac tgcaaggccg ggtgtgacga 120

ggtcacgggc ccactccaca tgagcatgga ggactgcatg aagaggtgca aggagatcgc 180

tgctaagcag gggcctaggg acccttacaa ggataacaaa cttgacatac catgaactaa 240

ttaatgctgc tatatcatct gcctatccat gcatgcattg cattgcgtat gcacactgag 300

cgtgcctgac cacagagttt cgtcaacaca c 331

<210> 40671
<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C6

<400> 40671

ctgacattcg acaacgcggg catgtggagc gtccggtcca acgtctggga gcggtactac 60

ctcggggagc agttctacat cagcgtcatc gtgcctgcgc ggtcgctgcg cgacgagtac 120

aacatgcccg acaacgccct tcgctgcggc aaggtcgtgg ggctgccgat gacggcatcc 180

tacgcccgcg cgcgctaaag acgacgaatg cgccgttttc acctcgacgt tctgaccatc 240

cagtctaact aatccattcc tgagctgctc ggcgaaatat aatcatcaaa tagaacaaag 300

acgaatgaag cctagggaag ggagaaggca cgttgggtgt gggtgagcca aatgagaacc 360

cacggatata tctattgacg taatcttgga gatgccctct caattaactg taatggggtt 420

aaaaaacaat ccttgtaatg ggagggatat atacttttat cttaaccttt atttacacca 480

<210> 40672
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C7

<400> 40672

gtacgtctag ttcagaaggg cgcgatgcac gtaccctgcc gggcagaaga tcgtgtcgga 60

catcgagaac ggctgcaacc ccaactacct ggccgtgctg gtgaagtatg tggcggacga 120

cggcgacatc gtgctgatgg aaattcagga caagttgtcg gctgagtgga agcccatgaa 180

gctctcttgg ggcgccatct ggaggatgga cactgccaag gcgctcaagg gcccttctc 240

catccgccta accagcgagt ccggcaagaa ggtcatcgtc aaagacgtca tccacgcgaa 300

ctggagaccc gaagccgtct acactttcaa cgttcaattc tactagactt 350

<210> 40673
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C8

<400> 40673

ccgttcgcgt tgctctccag cataccgtca ctgtcgcaga cggcctcgca ctcgcactcg 60

ccactggtca accagaacta ccggcttctg aaccagatgc aggtgttcca ccacctcggc 120

ggcagtcagc agccgtcgtt ccaccaggac ggcagcgcgg cggctttcgg tgacatcgtc 180

tcctctcgcc tgccgtcact gccaaccggc agaacgcatg ccgagctaca ttcgaaccaa 240

tttgacacct acatcagcgg cgggctggtg gatcagtcga tgctgatcgg tgacgaacac 300

ctgctgaggc ctaacccgag tatggtcaac gtcttctgca tgcccgcgct ttcctaccgt 360

gagccggat 369

<210> 40674
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C9

<400> 40674

tccacgcgtc cgtccacgcg tccgaatgaa tgaatggaag ccattgcctc taattcagaa 60

agcttggatt ggtctgactg ctggagcagt tggtgcttgt gttggtagtc ctgctgacct 120

ggcactcatt agaatgcaag ccgattcgac cctgccagtt gcacaacgac gcaactataa 180

gaatgctttc catgcactct accgtatcag tgctgatgag ggagtcctcg cgctttggaa 240

gggtgcaggt ccaactgtgg tgagagctat ggcactcaat atgggtatgc ttgcttccta 300

tgaccagagt gtcgagctat ttacggacaa atttggcgca ggagaaattt ctactgttgt 360

t 361

<210> 40675
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D1

<400> 40675

gacctaatcg catgtccatc ctaatctcac cctattttag taacaggtct aactaaggct 60

ctctattggt ctcatggtga acttgaaact gaactcgatt ccccttctga atcaggaccc 120

ggacatgctc taccatatcc tgctggtgca tatcaactat atta 164

<210> 40676
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D10

<400> 40676

cttctgctac ccctcttacc aagtcctctt cgggttaggg ttacttaggg tttcgaggag 60

gggcgatggc agcggctgat gtggagtacc gttgcttcgt cggcgggctt gcctgggcca 120

ccagcaacga gtcgctggag aatgccttcg cctactacgg cgagatcctt gactccaagg 180

tcatcaccga ccgttagact gggacgtctc gcggctttgg cttcgttacc ttctactccg 240

agaacttcat gcttgacgct atcgagaaca tgaac 275

<210> 40677
<211> 272
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-035-Q1-K1-D2

<400> 40677

ctgcctctca attctcaatg aggatagtgg ttggagacct gctatcactg ttaagcagat 60

tctagttgga atacaagact tgcttgatca gcccaatcca gctgatcctg cccaaactga 120

tggttatcac ctattcatcc aggatccaac agaatataag cgacgtgttc gtctgcaggc 180

caagcaatat cctgctctgg tctgaggatg ttggcatacc agagatccat gatccatnct 240

acacatcata gaaagttcaa gtttacactg ga 272

<210> 40678
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D3

<400> 40678

caacaactaa gcctccgtga ccgccacatc tattaggtgc agccatgggt gcctgtgcaa 60

cgaagcctaa gacgcttgag gggaaagccc cagctgaggc caccatcttc acacccaagg 120

ttgcacctga gaccactgcc atccacattg aggttgcggc gaaacaggca gtagttgaga 180

aggtggagga ggacaaggag gaggcactaa cagtggcggc gaaacatgag ccagcagcca 240

ccatcgagcc ttaacagatt gctggtgagg tgaccacttc ggaagtggct gtcgtcgttg 300

tcgagcctga gaacaaagag gagga 325

<210> 40679
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D4

<400> 40679

caccgctagg gccacctggt acggtcagcc caacggtgcc ggcgctcctg acaacggcag 60

tgcgtgcggg atcaagaacg tgaacctggc accctacagc ggcatgacgg cgtgcggcaa 120

cgtccccatc ttcaaggacg gcaagggctg cggctcatgc tacgaggtga gatgcaagga 180

aaaacctgag tgctcgggca atccagtcac ggtggacatc actgacatga actacgagcc 240

tatcgcttcc taccacttcg acttgagcgg caaggccttc ggctccctgg caaagcccgg 300

gctcaacgac aagattcgcc actgcggcat tatggacgtc gagttcaaaa aggtgcgatg 360

caagtacccc gtcgggcaga agatcgggtt ccac 394

<210> 40680
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D5

<400> 40680

gttccctaac cttgacgctt ctcccttctc ggcgcctgct tcgttggttg ccttcagcgg 60

acgccggcga ttcggctctc ctgttcggcg ccctccccag attgccccac ccaccgtcag 120

cctcgtcagg gtcctcccag gacaaaccat gctccggaga cagatgcggc agagctgggg 180

caggagcaga gccatcacag aaattcttgt ctccagattc ttggtcaaag gaatgttgga 240

cacctgctag ccaatgtgca gccgcgagag ggcttagaca gataatatgg tcgacggcat 300

ggacttctag gagctctgca gcgacttcga atgcataagc agcccctacg tggagtccat 360

tatgaggcca tgtcgcgccg gacatctt 388

<210> 40681

<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D7

<400> 40681

cacacacatc cgtgaaagaa acaagcacat agaaacaaat acatcgctag ctcgccacca 60

gacaatggcc tcaaggtact ctatcctgct tgccacaacg acactggcta tgttgttcgc 120

attcagttcg tgcaccaccc cactcacctt ccaggtcggc aagggctcca agcctggcca 180

cctggttctc acccctaaca ttgtcaccat ctctgacgtg tagatcaagg agcatggcgg 240

caaccatttc tcctttacac tcaaggaggg cccagctggc acttggacgc tcgacaccaa 300

ggccccgctc aagtaccccc tctgcatccg ctttgctacc a 341

<210> 40682
<211> 472
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D8

<400> 40682

ctctggttct ggtttcctct ttttatgcta caggtttggt tagctaccat atcactcgct 60

atctacaagg ttagttttcc gcatcgagaa atattatgtg atattgattg tcgagttctt 120

ttttctgttt caaaaaattt agtacttgta ttcatagtaa catttgatgc attaatgtat 180

acattcttat tttcatatat aggtttttga tcatctcggc atgttaaaga agaagaaatg 240

catctagctg taaagaaaag gaaggcaaat atcatcttat gcaattattt gtgtgctgtc 300

ggcggcgcgc tatggctacc ggcaaagaac tacctgatcc ccatggacgg agctggaacc 360

taatgcctgg caaacacact gattaacaca gtcatgttaa tcattgggaa cgtgcagcag 420

cagggcaccc gtgtcagact gtcagctttg acaccgtcaa gggcgccatc gt 472

<210> 40683
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D9

<400> 40683

ggcacgccgc agttccccgg gaggaccgtc acgctcgagc accagcccgg agcgacttgc 60

tggggagttg cttacagaat aaaggaggaa gataaggaga tagctttgga gtatcttgag 120

gtcagggaga agcaatatga tgagaaggtt taccttgact tgtatactga ttcatcgccc 180

aaagtaccag ctgtcgaaaa tgtgatggta tacttcgcca ccagtaacaa ggagaacaat 240

caaaactatc ttggtcctgc acctctggaa gaaatgacca ggcaaattta ccttgctcaa 300

ggcccatctg gacctaacaa agagtatgtg ttcaaactcg aggacgcgtt acacaaatta 360

ggagttgtag accaacatgt tcaagaactg gcaaatgctc tgcgtgagta ttctgacacc 420

gagttatcta agtgaaagat cacatttacc cc 452

<210> 40684
<211> 137
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E1

<400> 40684

ggcctaaacg cattgcgtgt accattgcaa tcattgccgg agtctacttc gtctgaaggc 60

tcaagagctt acattgcatc aacgcgagcg tgcaacactt ccatggcaac gtcgaagacg 120

caacgtgtgg cgcaaag 137

<210> 40685
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E11

<400> 40685

cgatcccaac cctgtgcccg ccaagtacgt ggccaagatg aaccagatcc gcggctacgg 60

cctcaacggt ggcctcaagc tgggcgtcgg cctctagagc cacttcagca cacccaacat 120

cccgtacatg aggagctcgc tggacacgct cgccaagctg aagctgacca tgtggctcac 180

cgaggtggat gtcgtcaaga gccccaacca ggtcaagtac ctggagcagg tgctcatgga 240

aggcttcagc caccctaacg tcgacagcat cgtcatagtg gcagcgtggc atgccacggg 300

ctgctacgtc atgtgcctta cggacaacat gcttcaagaa cctcccc 347

<210> 40686
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C5

<400> 40686

cagcaagagg gtcaactggc caggctacca cgtcatcgga caggccgacg ccacgccatt 60

caccggcggc gccttcatcg acggcgcgtc atggctgcag agcaccggca cgcccaacgt 120

catgggattc accaaagggt aatgatcggg ggattgcagt atgcatgcga tgatgatacg 180

cgcgcgtgtc ttcatgcatg caacatgctt ttgggtttat ccggaaactg ctagcatttt 240

tgtgcgcata tatatagctg gaagctcctg tgcacgcatg cacggtgaat aggatgacct 300

gtctatatgg gtagtacgtg gagctaacgc aagtgtgtgt acgtgtttgg cacggctccg 360

gctacttta aattgacttc ggcttcaaca tttttacagg aggaattttt aataaattat 420

ttggcaaaac gaataatata aaaa 444

<210> 40687
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A9

<400> 40687

agcgccgcgt ctccgaggag gaggcgcacg catgcgagga caggtacaac aagtccaagc 60

tcgtgcgctc catcatgcgc cacgtcggcg agacgctcga ggtcgacctc gagccgctct 120

accagcggat tggctggccg ctctaccgca agtacggtca cgccttcgag gccttcaagc 180

tcatcgttgc ggaccctgac gctatcctcg acgtactcac ctatgaggaa aaggaggtcg 240

gcccagatgg ccaggaggtg gctaaggtgg tgcctgctgt cacccctgag gttaaggatt 300

cactggtgaa gaacataagg aggaggatga caccgcaggc actcaagatc cgggctgata 360

tagagatgaa 370

<210> 40688

<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B11

<400> 40688

acatagagtc accaagcgat gaactcggct aagtttctat caaccaaccc tacatagcta 60

gacacggtac ccatggctcg cgctagcgtc gcctttgtca ttgccgatct cctgttcgtc 120

gccatggtac aatcacccat ggccgaggca tagtccgtcg atgcttctgt ggctgactcg 180

ccagccgatg gacctagcgg tccaacatgc tgcacctgtt ccacagggtg tcgaaatgcc 240

tatcatgcaa tgaagatgac gattattact tcaccaattg atgtctcaca cg 292

<210> 40689
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B2

<400> 40689

gtgaactgcg cgcgtactac tcaacagcgg atatacagct aatctgtgct ctacccagca 60

tttcacatga cgtcctgcac tactgagggg gagctatacc taaagtgcag acgaaatgac 120

gtatctgctg aagagatttc cgcttacacc cgactcgtct acaccttgca ccagggatgg 180

gagtccgacg agac 194

<210> 40690
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-035-Q1-K1-B3

<400> 40690

cccacgcgtc cgtttcagtt cttttcggaa tgcgttcaga gggtggcaat aagagctcac 60

gtgatggtgg accaactcaa agggcatcag ccttggcagc tctttcatcc gcattgaatc 120

catcgtcgca aggaaaacag tcagatgaga ggcccacaaa acccagcagc acacaggcgc 180

agtctcattc aggccaaggg tctcagagag ccgctgctgt tgcagcactt tccaatgttt 240

tgactgcaga gggatcgcac agcccccgcc acagtaggtc gtccccaaca gcagatgctg 300

agaagactga attagctcct gcttctnctc accagttgga aacagggcct gcagaagatg 360

tccggacaga acctgatgtc tcacatgaac aaactgctta cgaaaac 407

<210> 40691
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B4

<400> 40691

gcacagagac accaagcgtt gaactcgcct aagcagctat caaccaaccc tagaaagcta 60

gacaccggac ccatggctcg cgctagcgtc gtctttgtca ttgccgctct cctcttcgtc 120

gccatggtcg tagcaccgat ggccgaggca aagtccgtcg atgcccctgt ggctgacgcg 180

ccagccgatg gacctagcgg gccagctgct gcacctggcc cccagggtgt ctaatgcctg 240

tcatgcaatt aggatgacga tgatgactcc accaattgag gccacactac gttgcacggg 300

ttaaattttg aacaagacat ggatgaaaaa tgagagcaat gtctttaaaa ccatg 355

<210> 40692
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B6

<400> 40692

gtgacgcgac gcccttcgct catctcatct acctccgcct cactgtcgct ttctctgacc 60

tcctcctcct cggatccgtc ctcttactgg cgagggacgc gcagcggaaa cagcggccgt 120

tcctcgctct cgcgctcgtc ctatggtcgc cggcgctgtt agctgtcgac cacgtccact 180

ttcagtacaa tggattcctc atcgggctgc tgctgctttc gctgcacttc ctcgagcagg 240

ggtgggatct tatcggggga gtcgtgttcg catgcttgct gtgctcgaag cacctgttcc 300

tcgtggcagc gccggtgtac tttatgtatt tgttcaggca ttattgctgt ggccggtgtg 360

tcgtgaaggg gctgggaagg ctcgtgctga tgggttctgg agtggctggt gttttggcgg 420

cacatttgtg cccttcgggt attatggtca gatgcaac 458

<210> 40693
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B9

<400> 40693

gtgctcttcg tagtgaagat tgtgaaagag gaaacctggg aagcagtaat tgctgactcg 60

ttgctttatg cgaagggttt attgctggca gttactttgg ttattgattg ttggctggcc 120

tttgcctact ttctgggatt tcttgttata tatgctgtag ctcaacagcc accttatgat 180

ggcctaggcc attcaaatca tttgacccca ttgcaacttg aaagtctgct aactgaagag 240

ccaacatcac gattttggct ggtagaattc cgaacttcat tttcagcaaa atgtgtacaa 300

gcaagcagca ttctgcctga actttctatc acgtactcca acaagaacat ctcttttgga 360

acaattgacc ttgggcattt cccaaatgct gcagcaaagt ttgggatatt catgtgggat 420

catcttctca cttacatatt ggttga 446

<210> 40694
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C12

<400> 40694

cgacgttcgg cgaggaggct gatccggtct gttggatcgg aggcgcggcg atgggggcgc 60

tgtcgcggcc ggaggaggtg ctggcgctgg taaagctgcg ggtggcggcg gggcagatca 120

agcgccagat cccgcccgag gagcactggg ccttcgccta ctccatgctc cagaaggtgt 180

cccgtagctt cgctctcgtc atccagcagc tcggacccga actccgcaat gccgtgtgca 240

tcttctacct cgtgctccgt gccctcgaca ccgttgaaga cgacactagc atcccgaccg 300

aggtgaaggt gcccatcctt caggaattct accggcacat ctacaaccgc gactggcatt 360

attcgtgtgg aacaaatcac 380

<210> 40695
<211> 180

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A6

<400> 40695

gcgtcgggag aaccagcatc ttaataagag ccagtctata tactaataaa actctcgccg 60

agggcatccg agcgaacaag ccaagcgacc ccgtgctcaa tgcaatatcg tcgtcgacgt 120

accaccacca ccttatgatc gagatggaga tgaagaggat cctcttcgcc gttctcgtcg 180

<210> 40696
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-H1

<400> 40696

gaccgcagga agctgtactc caactttggt ttattgtatc catatggcca cgaagaattg 60

gccgtttgtg aagatgttga ccaggttcgt ggtgcaatgg agaagtaccc accataccag 120

tctatatttt ccaggatttc atatggagaa agtcagatgt tggataaggc attttatgag 180

gaggaagtca agaggctatg cttgtccttt gagcagcagt tccactacgc tgttttcttc 240

gcttacatca ggctccgcga gcatgacatc aggaacctga tgtggatctc tgaatgtgtc 300

gctcagaacc agaagtcccg ggtccatgac agtgtcgtct tcatattctg agaacccccg 360

ccactatata tgtatgtaca aaatgcctgc tttgatgatg gcacaatcgc tcgacaatt 419

<210> 40697
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-H10

<400> 40697

gtgattatgg gcttgtggtt gatgagattg ggaatgggat cagtgaaact gggatgaggg 60

gaaagctggt aaagaggaac atgtagtctt ctggcgactt ggatatctat ggtgggcata 120

gaatcaatgt ggaaccaata gggacgctag gtgaagacag gtcatcataa ataagatcaa 180

ggggtgacag tgatattgac aaccgacaag ctcttcaagc ataatagatg gatgttgtgt 240

ca 242

<210> 40698
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-H2

<400> 40698

gatgaaccaa cagtctacaa taaaagccag tcacatgcaa ataaaaccga tagacctcat 60

ccctgaggca agcctacc 78

<210> 40699
<211> 328
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-H3

<400> 40699

agcagcagta ggtcgaaaat ggcgatgagg tcgctagcgc tactggtcct cctcagcctg 60

ctggttgttg gtgtggcgca ggcggtggac ttggaaatgg agttggtgcc tgctgatgca 120

attgcgatga ctatggatca tgagccgccg catgagtgcg cgacccctgt tagcgtggag 180

gaggcgtgcc gcggcgcgtc tgagactcac gccggcgtgg cctacgacca ctgcatggcg 240

tcgctgggcg cctacctttt cantnnntgt gccggctaca agaacatgca cgccctggcg 300

gtgctggcca ccatggttgg cattgacc 328

<210> 40700
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-H4

<400> 40700

gtcgtcgtcg tcgtcgtggt ggtgcttgcg gcagctccgg agtccaggca gcaccctagt 60

cnggggcgc gggggaggag atatggatcg gtcgtatctc cccgtggcgg cggcagccgt 120

cgccctggtc ctcgtgtgct gctccggcct ctgccgcggc gagcggctcg gggcgaggga 180

gtgcgaggac ctggggttca ccggcctcgc tctctgctcc gactgcaacg cgctctccga 240

ggtcgtcaag gacccagagt tgttttntnn ntttcataaa tgttgcaccg aggattcaga 300

tgattctatc agcaagctca cattttctgg tgcaattatt gaggtgtgca tgaggaaact 360

ggtattttat c 371

<210> 40701
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-H6

<400> 40701

tgacaagatc aaatacctcg ccggctacaa tggcctccat gtcctccatc ctcctcgcca 60

tggtgatgct ggctgcgcta ttcgttgttc gtttgtgcac cacccccctc accttccacg 120

tctgcaaggg atccaagcct ggccacctga tccttacccc caaagttgcc accatatacg 180

acgtggacat caaagagcac ggtggcgatg actgctcctt tacgctcaag gagggcccga 240

ctggcacctg tgctttcttt accattttcc cgctcaagta ccccctttgc atccgctttg 300

ctg 303

<210> 40702
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-H8

<400> 40702

gccacagctc gtcgcgttcg tcaacggtcg acccatcgcc tatggaagga atgcgcgagg 60

cggatgctga cggcggaaag ggcgggggcc tccctccgtc ggagccgccg cacctgcagg 120

gccagccgcc gcaggagtac gggtacggca cgttccaggg ccctcgacat cctcccgtcg 180

ggttcccgca gcctgccccg cctcccgggc tctgcggcgg cggcgggggc ggcggctatc 240

acaaccagaa gcaaccattt tcnccnnnng agacttacta cgcccagggg taccaggccg 300

taccaggcta tggtcctgtt gctgaaggaa gacctgtgag aatgaggcgt cttccatgtt 360

gtggcctcgg cttangctgg tgtctgttca taactgggtt tttcttggct ggcatttcat 420

ggttcattgg agctttcggt ctta 444

<210> 40703
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-H9

<400> 40703

gtttggtgaa ggttatgtga gcacttgtgg aatcgagact acaaaggaat ttgtgggcat 60

gctcgatctt aaaccgggcc agaaagtacg tgatgtcgga tgtggaattg taggcggcga 120

ctgttacatg gctgcaaact atgatgggca agtgcttggt attgatcttt tggtgaacat 180

<210> 40704
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A1

<400> 40704

ggaaaatatg tctgaattcc atgtggtgtt tttttgttgc ctctttttgt gccttttttct 60

gttctcgtaa ctgtgttgca cacttatgag gatatgatga ccctttcccc agatgatcga 120

cagtgaacat attgagcgcc atattttctc ttttgagaaa accaagccag aattctgatc 180

ctccatttat gcataaaaag tatttctgaa ttttatgtag tacttatttt gtattcctcc 240

ttttgtgttt tttgttcttg taactatgtt gcacactttg gaggatatga tgacccttttc 300

cccagatgat caacaatgaa aatactgagc gctataattt ctcatctgag aaaaccaagc 360

cagaat 366

<210> 40705
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A10

<400> 40705

cggacgcgtg ggcggacgcg tgggcggacg cgtgggttgc gaaaaaagaa caacaaagga 60

ggaaacgaaa acgagcgggg gagctcgcgg accccaaaac cctaaccccg cggacccacc 120

tggcggcggc ggcggcggcg atggcggacg gcggaggaga aggaggacct cctgcggcgt 180

cggcggcgct caaggaccag gggaatgagc agttcaaggc ggggagctac ctcaaggctg 240

ccgcgctcta cacgcaagcc atcaagctcg accccgacaa cgccaccctc tacagcaacc 300

gagctgcagc attcctgcag ttggttaagc ttagcaaagc gcttgctgat gcagagacaa 360

cagtcaggct gaagccacaa tgggag 386

<210> 40706
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A12

<400> 40706

cgcgagtgct cgagacccgc gccgagggag gctgcctctt catcgtgcca aggttcttcg 60

ttgtctgcaa gatcgccgac gaaaccggca tggagtggtt ctccatcatc accaccccca 120

acccaatctt tagccacttg gcgggccgga catcggtgtg gaaggcaata tctccggcgg 180

tcttgcagtc gtcgttcaac accacgccgg agatggagaa gctgttccgt agcaagaggc 240

ttgactcgga gatcttcttt gcgccttcaa actgattcat tcgccggtgg aaaatggtcc 300

atccatctcg agtaaacttg gtgtcctggg tgtgttcttt agcagcttca gtttaaaata 360

atcagggtat gtcttcatca tcaggttttt agatcggttc atggtaatat aaacttgaga 420

tggtgcacat gtttcttaat t 441

<210> 40707
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A3

<400> 40707

cgtggacttc gtgaacaacg gggaggtgtc cgggatcacg ctgtttaact ccaagttctt 60

ccacatgagc atgtaccagt gcaagaacat gctgatcaag gacgtgaccg tgacggcgcc 120

cggggacagc cccaacacgg atggcatcca catgggcgac tcatccggga tcaccatcac 180

caacaccgtc attggcgtcg gcgacgactg catctgcatc ggccctggga cctccaaggt 240

gaacatcact ggcgtgacct gcggccccgg ccacggcatc agcatcggca gcctagggcg 300

ggacaagga 309

<210> 40708
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A4

<400> 40708

gagagacgca catctatctg tcaagcgacg ccgcggcctc gatcagagtc ggaggcgaac 60

acccccatgg cggcggctgg cggcggcgca ggagggaagg tatccttcaa gatcatcctc 120

acctccgacc ccaagctccc tttcaaagtg ttcagcgtgc ccgaggcggc gccctttacc 180

gcggtgctca agtacgccgc ggaggagttc aaggtcccgc cccagaccat gcgccatcat 240

aaccaacgat gggatttggc atcaaccccc agcaaaagtg catgcaacgg tgtttctgaa 300

acatggttcg gagctgcgtc tcatccctcg cgatagggtt ggagctgtag tcatgtctta 360

cggttagagg atatatacac gtcaatgcat tattgagcaa aacttgagag aaattaagcc 420

tttatgttgg ccctgcttgg ct 442

<210> 40709
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-D9

<400> 40709

ccggcgaact ccacgggctc cggagtgtgc cgttcgtcgt cggagttcac cggagccggg 60

tactagctgt ccgtagtcga gccccgctct ccgtcgatcc gtgcccgtca cacgcacgaa 120

cccgaggttg ttgatgaccc aaatttattt tatgtatttt ataaagcgtt tttattcgat 180

tcatgtgttg tatattttgt tgttgtaata tgaacacatg tgattccgat ttatggatat 240

gtgtgcgctt attaaaa 257

<210> 40710
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-E11

<400> 40710

gcaagctgcc tcctcctcgt cgtccggtcg tgagaaggga tggcgggccg tggcaaggct 60

atcggcgctg gcgccgcgaa gaatgcaacg tcgaggagct ccaaggccgg actccagttg 120

cccgtctgca ggattgccag gttcctcaag gcgggcaagt acgctgagcg cgtcggcgcc 180

ggcgcccctc tgtaccttgc ctgcgtcctc gagtacctcg cggctgatgt tcttgaactt 240

gccgggaacg ccgtgaggga caacaacgag acctcgattg tgccgtgcca cattcagctt 300

gctttgcgca acgacgagga gctgaccaaa ctgttggggt gggccacca 349

<210> 40711
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-E12

<400> 40711

cgaaaaccct cgcggcgagg agcgctctcc gtcccacaca cgcgcgccgc agcctccgca 60

gtccgcacct gcctccacga cttgtcgtgc tcgtgcgcta ctctcctcga gcgcggcgcg 120

gagcacgggg acatcaaatg gcggcagcgg cggagatcgg tggtttcgcg gcggcgagag 180

tggcggtggc gacgctcagg ccggctgcgc acccagcccc ggcggcggcg gtggcaccgc 240

agcctaggag ggcggtggcg gcgcagtcgc tgcagacgac cgccaccgag gcgctgacgg 300

cggatctcgc cggcacgacc aacggcgctg tgcatgctcg gatgaatagt aaggctacaa 360

gtgaaatcac ttcacaggca gttactgcaa attctaggag aaagacatag atagtctgga 420

ccatagggcc ccttaaccaa cact 444

<210> 40712
<211> 448
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-E9

<400> 40712

gtcctctcat accgtcgact gcggagacgt ttcagttggc cctgaaactc ttcagctgcg 60

ggccaaaaga caggtcgatg acctgttagg agacaacccg atgaagatgt cgtacatgat 120

cgggtacggc gaccggtacc cgcagcggat ccaccaccgg gcctcgtcgt tgccctcgat 180

cagggaccat cctcagccga tggcgtgcaa ggatggcacg ccgtacttca actcatccgg 240

tgcgaatcct aacccgctgg tcggctcggt ggtcggcggg ccgggggagg acgacgctta 300

cgaggatgac cgtgcggatt tcaagaagtc tgagcccact acctacatca acgctccctt 360

ggttggggtc cctgcgtact tcgttggcaa ccctaatcct ggtcataaca ccagacattg 420

agcggtgcag cctctggatc tttcttgg 448

<210> 40713
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-F11

<400> 40713

ggacgatgga tgggacagag acaaaagatg attgctgtga gcatcatcgt ggtcattagg 60

gcacgagcct acgttgacga tgatggcgat atcattttta gtaggcggtg cctggtgtgc 120

tactacgaag ggcggcggac gctagaaca 149

<210> 40714
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-F12

<400> 40714

gatcgacccg tcatcctcgg ttcctcatcc aaccgggcat ccggattccg gtgagcggag 60

gaaggcgcca tgaaagctgc ggatgacgcc actcgctgcc ctcagatccc ccggcgttgc 120

caccactgtg ccgggccact ctccaaggac atggaaacga gcagctgtac atgacctccg 180

ttggttcgag atagctgctc catgattgga tcggctcttg ggggtatagc aggagcgtgt 240

tatggttgca accatttttat gcctgttgtt cgacgtcaca taaagggccc aatggggatg 300

catttttttg ttggtgcacc agcatttatt gtgttctctt ctgcatgtgc tggattagca 360

ggtggtacaa taccagccac cgtacagttg gtttcatcat cctgtcatgc 410

<210> 40715
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-F2

<400> 40715

cggacgcgtg ggcggacgcg tgggaaaaat gtgacatttg tttctgtacc atgaaaaaag 60

gaggaaaaaa aaaaaaaaaa gggaaaaaaa aaaaaaaaaa aaaaaaaaac cccacccgtc 120

caaaaaatcg caggttgttg aagcgaatgt acctgaacat gttttttgtg acgaacaaca 180

aaaaatttta aacgaacagg attcactgtc aaatatgaac aaccatattg gaatagttga 240

gcatttaaag caaaataccg aatccaaggg tnttatggta ctgcgtttct tatatagttc 300

ttcattccat gagggtctca catttacttt ttttttaaa accaggatga aagacctgca 360

tctgataagc aacctgaacc tgtttttagg cagcataaac atttgaactt tcctccgttc 420

actacccaaa ttcacttgaa a 441

<210> 40716
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-G3

<400> 40716

caagggacta taagagggtt ctagaaagca tgaaggtgga aaaggctgtt gctaancatg 60

caaaggagcc taagatggca gatggaattt ctgtgacaac taagaaagta caacctgatc 120

agtcagcaag ccgaccaaca catgttgcca atgccaaaaa gtacaggggc tttattacat 180

atgagcgaga gagtatttca tacagagatc caaaagagcg tgttagagat tggaaggaag 240

ttgcaatcga atctacacct ggnccactat taaatacaca atctgctcgt tgcatggact 300

gtggcactcc tttctgtcat caggaaagct cacgtgctgg ttgtcctctt ggaaataaga 360

tcccaaaatt caatgaatta gttcaccaaa acagatggcg cgaagcattg gatcgactac 420

t 421

<210> 40717
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-D11

<400> 40717

aatctgaaaa caaagctttt ccgctgccga ccgagcactc cgttccatgg cgtcgccttg 60

ctcgtgggac tagcaagcct ggcctcgctg gagaccatca agaagcaagt ggcaatcatg 120

tatttgtggc cgaaggcgct agaagtacct ataatggacc cctcaaaagc attaaaaaag 180

cctgttggaa ttctacttgt gaaggtcgta agagcccaaa atttgcgaaa gaaggatctg 240

ctgggtaaat cagacccata tgtgaaactt aaaatgtcag atgataaact tccatccaag 300

aagactactt gtaagcgcag caatctcaat ccagagtggg atgaagaatt taagtttggt 360

gggactgagc cagaaagcca gtctctttga attaaaggct tcgactggga acaggtttgg 420

aaacatgaa 429

<210> 40718
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-A6

<400> 40718

ctattattgt acccatggat ttgtgttcat ttgaaggtga ttcttctgtt gccatcgcgg 60

aggcactcta tgagatggtt gagggttttg tgctgcagca tcaagttata ctcttctgtc 120

ttggagaaac tttcacagag ctacctccta tttaccctct ggttgatttg cctataaata 180

ctagggcaag cgctgcagat tttggtggtt cagttcctaa acctgggctt gaagtcaact 240

tagtcgacnc tgttccttgn cnaatatcat ttgagagggg caaagaacgg cacttctgct 300

ttttagccat agctcatgga acttctggtt ggattcttct tctagaagaa ttacctctaa 360

aacgggaacg aggaattgtc cgtgtcatgg caccttggc aggatctgat ccaagaatag 420

atacaaagca tgggaagtgg ttacatcta 449

<210> 40719
<211> 240
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-A7

<400> 40719

ccttgtcgtg ttggagggtg cggtttcctg gtgcggatgt gagggaagcc nngaggggca 60

gggaaggaat gcagaggtcg cggaaggccc ttctgcggag gacggcggcg gcgcaggtgc 120

atagcgcatt ggcggaggct gctggtaacg ggaggaagag gcgtctgtac ggcttttccg 180

tctccttcgt cgtcaccttg tgggtcgccg ggctcctgtt ccattccttg ttcggccacg 240

<210> 40720
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-A8

<400> 40720

gaaccttggc cggaaatcac taacattcca ttgctctttt aatcctgcca tagacaagga 60

gcatgccaag tgcatggccg ggatactggc tcactcacct tgtctgaacc ggatatccct 120

tgctgggctc acagagctac ctgactcggc tttgagcacg ctgagagtgt ctggatcatc 180

tctaaaatcc ttttcattgt actgctggtc tggcataaca gatgatggtc tagcacacgt 240

ggctattgcg tgcccgaaca nnnnagaggt tgaacttcaa agctgcttta acactacaga 300

tgctgccttg gaaagtcttt caaaaggctg ccgtggtttg aagagtctaa accttggttc 360

ttgcatgggc attacagacc aaggggtttc tgccatcttc agcaattgtc caaacatctg 420

cacgct 426

<210> 40721
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-A9

<400> 40721

cccacgcgtc cgcggacgcg tgggcgacat gatggcgtgc acaaacaatg cgatgagagc 60

cttgttcctc ctggtcctct tctgcatcgt gcatggtgag aaggaagagt caaagggcat 120

ctatgcgaaa gcgtccgggc ctggtgggtc cttcgacatc accaagttgg gcgcctccgg 180

caatggcaag acagacagca cgaaggcttg gcaggaggca tgggcattgt cttgcggcgg 240

cactgggaag cagacaatcc tcatacccaa gggtgacttc cttg 284

<210> 40722
<211> 295
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-B1

<400> 40722

cccacgcgtc cgagacaatg caatgagagc cttgttcctt ttagcgctct tctgtgtcgg 60

gcatggtgag aaggcaaagt gaaaggacaa cgatgcaaaa gcgtccgggc ccggtgggtc 120

cttcgacatc accaagttgg gcgcctccgg caatggcaag acggatagca cgaangctgt 180

gcaggaggcg tgggcatcag cgtgcggcgg caccgggaag cagacgatcc tcatccccaa 240

gggcgacttc ctctgcggac cactcaactt cacaggccca tgcaagggcg acgtg 295

<210> 40723
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-B3

<400> 40723

cttggaaaga gggggtaaca aaacacgggt gctcattctt gcactaccac accatgtaag 60

ggcgtggatt catttttggc cgcggggaga ccctcatcaa tgatctatac tagctccata 120

cgaatggtga taatccacaa atagcatttg tattatgaag aatgtatgtg accactgacc 180

tgtgagacaa atactgatat gtatttaaac acggttgtga tgcccaaatg cttggagaaa 240

caccctacaa attcaaaagt gcactagaag gaagaaaaaa cactgagagc tcaagcaaca 300

accaatgatc actacttgcc cccacttgat atatttta 338

<210> 40724
<211> 316
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-B4

<400> 40724

ctgaccatca acggacacag gaccatcgtc tggcaaggat ccctggtgtt gatcaagagc 60

gagggccaac attcttacgg gggcgagatc ctcccgaatt gcttggtgct ggattttgtg 120

acgaacgtcc acatccgctg gatcacactt ctcaacaaaa agttcttgca cctaaacatc 180

ttcgagtgca agaacatcct tatcgacaaa atgactgtct tggtcccgct cgacaggccc 240

aacacagact gcatgcacat cnncnncncc agcaacgtga ccatcatgaa ctccaccatc 300

ggcatgcgct actact 316

<210> 40725
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-B7

<400> 40725

gcaatcaccg gggcaagcga accctcgatt tgcgtccccg ctctctgcta gcgcccctgg 60

aagaggagcg aagcgatgtc tatgtcgaag acgggtcagg ccgcggagaa ggatgagcag 120

cagcagtccc gagggatagc actgatgcag ggcatctgcg ccgtggtgta ccgcaaggcc 180

gataacacgc cctgccccat caagcagggt ctctacttgg gatctgttgg agcagcattc 240

aataaggacg ctctcaanan tttgaacatc acccatatct tgatcgttgc aaagtcactg 300

gatccagtat ttccagctga atttaattac aagaagatcg aagtacttga tatcccagac 360

actgatctgt taaagcattc tgatgaatgc tttggtttca tagatgaagc tataagctct 420

ggaggcaatg ttttggtcca ttgctttgct gggcgg 456

<210> 40726
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-B8

<400> 40726

gcacgagcct gcctgctacc tcaccttgaa cgcgcagccg ccgcctgcgc cacgcgtgaa 60

gaagcagccg cctgcgctcc gcccgaatca ccgcccggag ctccgcgact tcggcggcgt 120

cacgcagcct caggcaacac gggagcgctt cagcgtcgtc gtcgtcgtcg ttgcggccgt 180

tctacaactt catgccgctg ccggttggtc cagttcgctg tgagaggccc ctgagcgaga 240

tcaaggccca cggctccnac agcntcgacc tggaactgaa gctgtaaggg agcgcatata 300

actggaaccc tcactccctc tgttgtatgt tccttcctgc agcgggaaca gcgctcgtcg 360

tcgtccagaa gaagactgtg gcggcgtgtt tggttttgta acctgaaaca ccgccatgtg 420

catcagaatc tgcg 434

<210> 40727
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-C10

<400> 40727

atctctcact ccaaaagaat tcagatggcc ctattgatgg ccaacccaat ggtagtcaca 60

aagaattagc tgtcacatgg gttcataaat gcttccaggg aatattgact aatgaaacaa 120

ggtgtctgag atgtgaaact gtgactgata gagatgaaac attgtttgac ctgagcctgg 180

acatcgatca gaatagttca ctcaccagct tgcttaagaa cttcagctca acagagactt 240

tgaatgcaga tgacaagttc ttctgtgaca aatgctgcag tttgcatgaa gcacgaaaaa 300

ggatgaaaat aaaaaaacca ccaaacattc tagtaattca tctcaagcgg atcagtggta 360

ttgagcagct ttagcgctac aaatagctat ataccgagt ggttttccca ctggagctta 420

accttgtaat acaggtggtt attc 444

<210> 40728
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-C11

<400> 40728

attccgttcc cctggacccg atcgagatgg agtcggaagc tgacagagcc gcggcgccgg 60

cgccggcagt tgccgcggag accagcgacg acgccatcca ggaggagtct ccagccacgg 120

ccccttcctc agacggaaag cccggatcag gggcggcggc ggccccggcg cctgaggtgg 180

aggtgcagct gttccggctc gggcgtccgg tggccgtgtt ccggtcggag ctgggcgggt 240

atacgcagga ccagctggag gtgggcgaca tcctggagca gcacggcctc aagtccgtct 300

tcgccttcga ccctgccggc cgcaaacgcg gcgtcgccat ccggttcaac cctcgcaacg 360

gccgttcgct gctgctgtac gcccctggtt ccaccatctt tctagaccgg gagcccaaag 420

attcttt 427

<210> 40729
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-C2

<400> 40729

gcgaacgcgt gcatgcgcag acgttgaggt cgagggacac ggtatctctg agcttcatga 60

gagagcgacc cgccaccgtc acgcttggcc gcaagccgag aagagtgccg ggccgggaga 120

ccggacgata attgatccgt agcagattcg ctaatggcgg agacggcgga catggagcgg 180

atcttcaagc ggttcgacac caacggcgac ggtaagatct cgctgtcgga gctgacggag 240

gcgctacggg cgctggggtc caccncnacc gacgaggtgc agcgcatgat gggcgagatc 300

gacaccgacg gcgacggctg catcgacttc aacgagttca tcaccttctg caacgccaac 360

ccggggctca tgaaggacgt cgcaaaggtc ttctgatcca ttacatcttc gtccatacga 420

ttcaatcgat gatgaacctg cttatataca cacacac 457

<210> 40730
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-C8

<400> 40730

gtgggctagc tccctggcct gctcgattaa caaccccgcc tccccgtctt gctcatttgg 60

atgttactgc tgacacattg gaaaaggaca cggaaatgtg gcagcaacga gtagaaaaat 120

attggagttt gttgggccca aaggtaaaac cagacactat tagaaacatc atggacatga 180

aagcaaattt tgggtcattt gctgctgcac tcaaggaaaa agacgtatgg ttgatgaatg 240

ttgtgccaca tgatgggcct atccccctca acataatcta ttatagatgg ctgataggca 300

gcaatcatga ctggtgtgaa gccttctcga cctatcctcg aacatatgat cttctccacg 360

catgggcagt cttctccgac ctcgataaaa gaggctgcag tgctgaaaac ctgctcctcg 420

aaatgga 427

<210> 40731
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-033-Q1-K1-H1

<400> 40731

cccacgcgtc cgcccacgcg tccggttgcc tgaaaccttc gtttccggtc tggaatgttg 60

ccgatgtcaa acatgtcagc taatccttca cagcttacaa ttttctatgg cggatcagta 120

tgtgtgtatg actcagtgcc accggaaaag gctcaagcaa tcatgcttat agctgcagct 180

gcagcggcag cggcagctac caaaagcagt gctgccccta ctgttaaacc tncaatggtg 240

gcctgcagcc ctggtggccc aacaagtggc ggttcttccg ggcctacacc ggcttcatta 300

ctggagaaca cttttggagc aactgggcca ccttaaggtg gtgcttgacc taacttgatt 360

tgccaacttt aagctgatct tcccattggc aggaaggac 399

<210> 40732
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H10

<400> 40732

gccgcgagat cgagaatgtc catctctatg cggctcgcga tccctgctcc tgccgtcacc 60

gccgccgcgc cgacgcggct gagggtgcga gcggcagcgg cggggaaccg cggctctctc 120

tacgtcgcgc gcgccgtcgt acgggcggag acgggcgcgc tcaggggatg cgcctggctg 180

ccaccgaagc cgctgggagc gggccagccg taccggagca ggggggccgt cgacgcgtgt 240

cactcgtcgg cgcacctcag cgcgcgcacc atccagtgga tctccgacgg agccagcgca 300

gtgctattag ttgctaaagg cactgccata cacaaatctt tccttgtgcc attgtttgct 360

cttcaggcac cttgcagcat aatctcatgg atcaagggtg actatggtca gtggactgct 420

tttcttgctt tcgtggtgcg tctattc 447

<210> 40733
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H11

<400> 40733

tgacggtcgt ctcgccgatc gcgccggacc tcctggcggc gttcgagcgc aagttcccgg 60

gcgttcacgt cgaggatgcg gaggggctca cgtagcacat gtgcatcacg ctgacgcacg 120

ctagcggcgg acagctagga cgttgcagtc ggctaatgca agctgtcaat aacaagtcgg 180

tcgggttcat tctgaccaac ctggacgcga acttcttgga ccccgacacg gggctggacg 240

ctgcccaata acactcctt 259

<210> 40734
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-033-Q1-K1-H12

<400> 40734

atttgaaata attgggaata aatagttcgt gaatccctga agcgtgcata tatatattcc 60

tgccaagata aaggtgatgg agtcgtcacg caggttccag ccggtcgtca tcctgcttct 120

cctgctcatt gtgtccaccg atatggcaca tgcaatgaaa tgcgagaagt acagtgagcg 180

attcgttggg gcatgcatga tcgcagacaa ctgcgccaat gtgtgccgcg gtgagggctt 240

cttggccggc aggtgcagca ccttccgccg acgcttcatc tgcactaagc agtgctaaac 300

aagatcgctc gatcgctcgc catgcatcga caacctattc ttaataacgt tcattatctc 360

ngtcttattt atgacgaatg tcatgtatgt tctggtgact gtcatgtata ttctgatgac 420

tgtcatgtat cttggtcatg tatgctcaaa g 451

<210> 40735
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H3

<400> 40735

ggaccttcgg cgcccgttca ggatccacat cttcccgagc gagttcttgg ttgacctctt 60

cctcttcgga ccacctccaa ggctcttggt gtagcttgcc actctcacca atcaagtttt 120

catgtctgat ctcgacattc acatcccaac tgccttcgat cccttcgctg aggccaatgc 180

tggggactct ggtgcggcag cagggtcaaa ggactacgta cacgtgcgca tccagcagcg 240

taatggtcgc aag 253

<210> 40736
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H5

<400> 40736

cccacgcgta cgtccacgcg tccggtcacg cgtgcggctc cttctgcact ggcggcggtg 60

gctacatctc gatcggtggg tctctgcctc acactcacac acacgaacgg cgactgccat 120

gaaacacgcc gcgaagctcc cgtaccgcgg tgcatcgacg tcacagcacc gactctccca 180

cgctatcccg aagacgccga cgcgtaagat cacgatcgct cacgtcttgg cgccggaagt 240

tatcaaaaca agagctccag actttcgtaa gggcgttcag acgcttaccg gaatgccatc 300

gttccaaaag g 311

<210> 40737
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H6

<400> 40737

tccacgcgtt cgtgagagtc ccgtatggag tggagaagga gttcttcaga tactgggttt 60

tccttgtttt ctgtaggcgc attaccacat ccatggtgtc tgcaatggtg ttactggcaa 120

gtaagacatt cttggaccct gtggctccac tacacaaata tggtgatggc tccatatcaa 180

atatactgac cactacctgc cattatgagg ctctcacgta tgtaagcttg cctgttcaaa 240

cactggccaa atgcgccaaa agaatccctg tcttaacctg ggccacaata ttattgaaaa 300

aaaattttgt tgaaaacaat aactcttttc ctgccgccgt aattatgctt tcgcaatggt 360

taatttata 369

<210> 40738
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H8

<400> 40738

cttcctccac ttgccttcga gttcgtgatt cgtgatttcg ccgccggaaa gccgagggag 60

agggagcgat atggggtgcg tcggagacac gatggagtcg atccgctcca tgcagatccg 120

gcaagtgctc atgcagatca tgagcctcgg tatgattgtt acctatgcat taatcatatg 180

gaagggcttg atagatttca cggggagcga gtcaccactt gtagtggctg ctctaattag 240

catggagcct gcatttaaaa ggggtgaaat cctgtttttg catatgagca aagatcctat 300

tcgcacagga gaaat 315

<210> 40739

<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H9

<400> 40739

taccaattcc caattcgacg gacgactcac gcgtcctatc cttcacgact atcaccaaac 60

tc 62

<210> 40740
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-A1

<400> 40740

cggacgcgtg ggtccagaca aatctcacct gtcttgatat attgaagaat gcatggagcg 60

ctatatggac ccttcaggct gtttgtagag ccataattgc tctgatggcc caccctgaac 120

cagacagccc acttaactgt gattcaggca atctcctgcg gtccggtgat atcagaggct 180

atcaatcaat ggcccgcatg tatacaaggc tggcggccat gccaaagaaa ggttagccgt 240

agaacatgtg ccaggccaag agcctattgt ccatgcatgg ctacatgttg tcaggtctgc 300

cttgtgctgt ctgtatgaac tttgtggttc ttgattcatg aaatactaac cgttcgtgtg 360

ttgcgtgtgt gtctggggta atgagaggac actcgggttc tc 402

<210> 40741
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-A12

<400> 40741

cggacgcgtg ggcggacgcg tggggcctgc cgctcgccgc cgcggacgtg gccggcgcct 60

gccggagcgg caacagcagc agcaccacca ccaccaccac cgtcgactcc ttcggcggcg 120

acgtgcaggc gccgcccatg caggccatgc cgctcccacc gtccttctgc gccagcggcg 180

ccgtacgctt ccctttcagc agctaccccg tgacgcaccc gtattacttc ttcgggcagg 240

ccgcaacagg gtgccatatg ctgaagctgc caccgacgac ggtgactgtg gctcagagcg 300

actcagactc ctcgtcggtc gaggatctgt cgccgtcgcc gtcgccgtcg cggcgggcga 360

cgtgtcagcg acgagatccg gcacgt 386

<210> 40742
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-A2

<400> 40742

tgcagagctc cacggggatc accatctcca actgccactt caccaaccac aacnacntcg 60

ggctcttcgg cgccagggac gggctggccg caggaccaga tcatgcagat caccgtcgcc 120

ttcaaccact tcggcagggg cctggtgcag cggatgccaa ggtgccgctg gggcttcttc 180

cacgttgtca acaacgacta cacgcactgg ctcatgtacg ccattggcgg cggggacgcg 240

ccaaccatca tcagccaggg cgaccgctac atagcaccac caaacatcgc cgccaaaggg 300

gtcaccaagc ccttccccga aaaaaggggg tggaagaact gggtgtggga cacggaggac 360

gacctgttca tgaacggcgc catcttcaat ccgtccggcg gcgcccccaa gcaggtcgac 420

accaacgagt gggtaaaggc c 441

<210> 40743
<211> 343
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-A3

<400> 40743

cggacgcgtg ggcgcatgcg cgttaccttt tacaactgca aacactacaa ccataagaag 60

gggcgtcctc ttctgtgggt gcgtagcact atctattgta agtgccctcg gacgtttgcc 120

agcacccttt cttctagaac taattacagc tactaacatc acaaaacatc ttcaatgaca 180

acctcaactg catgctgcat gcccaaatgt tcctctttga ttacacacat actggtgcta 240

ttataatcaa ggactctaat gaacaangnn cnctatatcc aaatatacct tacaatctaa 300

gctcatatgt catttcaatc ctacaaaatc ttgggaccat tat 343

<210> 40744
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-A5

<400> 40744

gttaggagct taattgcctc tgctggtggg ttcaggaagt tctatgcgga ttgggcaggc 60

ttatactgaa caggggcgtg cctgtggttc aagccaatga aactaacttc tttgccgaag 120

aatgggctga gtctgactac tactacgacg acgacggcgg catggactat tctgaaaact 180

cattgccttc ggatttcgtg tctttggtcg atgtatggta caaaggccat gcgctctact 240

cgaaggtcan atgggggaat tcccaactca gacagtgcca atggatggtt ctacaactac 300

ccgttccgga tcgacctgtc tcaacactcg gctgaaaaca acgagaacaa caacggagat 360

gtattcctat ccactgtc 378

<210> 40745
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G8

<400> 40745

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgag cagaggtcga caagacgaga 60

caagagaatg cctgtgagca ggatcgccgt gggcgctccg ggcgagctgt cccaccccga 120

caccgccaag gccgccgggg ccgagttcat ctccatgctc atcttcgtct tcgccggatc 180

aggatcgtgc atggccttca gtaagctcac ggacggtggc gccgtcactc ctgccggcct 240

catcgccgcg tctctggcgc acgccctagc cctcttcgtg gccggctccg ggggtgccaa 300

catctccggc gggcacgtga accctgccgt gaccttccgt gcctttgggg gcggcaacat 360

caagccttct aaggcccttg tctactgggt ggcccaggtc ctgggcttcg 410

<210> 40746
<211> 305

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F10

<400> 40746

ccgccgccat gttggttctt gtccgtctac agatttctct ttctaccctt tatgttctct 60

ctttcttctc tggtttcaat atttggagct tttgttctgc gttggacgat gatgatttgc 120

tcatatatac catcaaactc tgaacaatca tacgctatgt tgattgcaca aagcttccgt 180

gagtctgatg cgatcttctg cctctaatcc cgtttttgtt tattcgtctt cttccatttt 240

tcgtttcttt gttttctgaa ttaatttatt cccgatgcaa taaattagag tctctgatgc 300

gcttc 305

<210> 40747
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F12

<400> 40747

cgcatcgcag taccgatccg caattcgagg cacgcctcac gcgtccacaa cacacggcga 60

tggcgaaggt cggcttttgg aagggctacg cgtcatgtcc gttttgtttc tgctcctctg 120

tgggaacatc ccatccatga ctcgctgccc ttcgcattgc tctgcgattc catgcagtac 180

atcgatcctt ctcctaatat tcaaaggctc tataaaga 218

<210> 40748
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F2

<400> 40748

ggaactcgaa caaggaacga tcggctaatc gatatggctg gatgtgttgc cagcggcgtg 60

gccgttccgc ctttgatgaa gctagttgtt gtttctactg cctgaggtga acaaaccttа 120

tacgacacac tacaggacgc ctacaccatg agacaatact acaagatgtg tgtgaacgga 180

ctggacatat agtcagacag ccagaaggcg aagtacttcc acataggcac gcatgtcttg 240

aacatcagga accacaaggg atcccagatg accaagctca tgcacagtaa tgaccgcatc 300

cacgacgaca ataatgcgcg cacgtattat caccgctatt acgtgcacct gcaggaggac 360

gaagcaca 368

<210> 40749
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F3

<400> 40749

cggacacgtg ggcggacgcg tgggcagacg cgtgggctga cgcgtgggcg aacgcgtgca 60

tgcgcagacg ctgaggtcga gggacacggt atatgtgagc ttcatcagac agcgacccgc 120

caccgccaca cttggacgga agccgagaag agtgtctggc ccggagaccg gacgataatt 180

gattcgtagc acattcggtt atggtggaca caggtgacat ggagcggatc ttcaagtcgg 240

tcgacaccaa 250

<210> 40750
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F4

<400> 40750

ccggcatcca cgagaccacc tacaactcca tcatgaagtg cgacgtggat attaggaagg 60

atctgtacgg caacatagtg ctctccggtg gcaccaccat gttgcctgag gtcgctgaca 120

ggatgagcaa ggtgatcact gccctggctc ccagcagcat gaagatcaag gtggacgctc 180

ctccagagag gaagtacaga gtctggatcg gaggatccat tctggcatcc gtaaggacct 240

tgcagcagat gtggatcggc acatccgagt acgacgagtc cgggccatgc atcgtacaca 300

ggaaatgctt ttaattatct gggtccaata catgcataac gtggcggaag ccgtaccggc 360

gc 362

<210> 40751
<211> 414

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F5

<400> 40751

cttcccaact cgctggtgat ggacttcgtg aacaacgggg aggtgtccgg ggtcacgctg 60

ctcaactcca agttcttcca catgaacatg taccagtgca agaacatgct gatcaaggac 120

gtgaccgtga cggcgcccgg ggacagcccc aacacggatg gcatccacat gggcgactca 180

tccgggatca ccatcaccaa caccgtcatt ggcgtcggcg acgactgcat ctccatcggc 240

cctgggacct ccaaggtgaa catcactggc gtgacctgcg gccccggcca cggcatcagc 300

atcggcagcc tagggcggta caaggacgag aaggacgtca cggacatcaa cgtcaaggat 360

tgcactctta agaagacaat gttcggcgtc cgcatcaagg cgtacgagga cgcc 414

<210> 40752
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F6

<400> 40752

attttccaaa gaaaagagga gagaaaagcc aagttgcagc aacatttcgc tcagcttgca 60

agaatggttg gacctgcgaa ctctatgatc cccactggat atccacaagt ttattttgcc 120

catccaagta cccatatccc tcaaggtcct ccaagacaag gttttgtgta tccacccatg 180

ggccttagtc atgaatggag accaagtatg ttccccccag caccaaatct ccagcaaata 240

cattcacccg tgatgccaaa ttcgccaagg cattacagaa gcaaccgagg aaggatgggt 300

gggaatatga tgcctcttcc tcatgcagtt catacaatga actatatgac acattcacag 360

ccagctaaag aattcatgtc tttgcctcga cagcgattca atcatccgaa gtacttctca 420

aatg 424

<210> 40753
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F7

<400> 40753

tttatgatca atggatctct aaaacagttt ctgaggaaaa aagacaggac aattgatcgc 60

cggaagagag taatattagc catggatgct gcatttggca tggagtattt gcatgggaag 120

aatatagtcc attttgacct gaaatgtgag aatctactgg tgaacatgag ggatccgcag 180

cgaccaattt gcaagatcgg tgatcttgga ctgtcaaagg ttaaacagca taccttggta 240

tctggtggtg ttag 254

<210> 40754
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F9

<400> 40754

ccttacgcac gcacgtacca attcccaatt cgacgcacgc cccacgcgtc c 51

<210> 40755
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G10

<400> 40755

cacgaccagc atagtatcta ggtgaacttg cgacttggaa cacagcatac ggcgattggc 60

agaagctttt aaggggctgg gcaacccttt gagaattatt gaaggggttg gggcttcctc 120

cggcccaaaa tt 132

<210> 40756
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G12

<400> 40756

ccggaattcg acggatcgct ccaggcgtcc gcagcaaagt catgagatga atgaggtcat 60

tgagcttgca atcaaacatg caggactgtc tgagagacta gctcttgcac aaccaaaggg 120

tgtccgtctt tatggaccta cggtcacagg atcgacattg ttggcacgtg cggttgctca 180

tgacactgac tgcaccttaa tcagggtgtc tgcttctgag ttggttcat 229

<210> 40757
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G3

<400> 40757

cccacgcgtc cgcgcagaga taggcgtctt cgtactcgcc tacctccgcg gctcaaacct 60

ttgccccttc tcccaattcc cgccgccgct ccatcccgta acgcgacacc atgagggagt 120

gcatttcgat ccacatcggc caggccggta tccaggtcgg aaacgcgtgc tgggagctgt 180

actgccttga gcatggcatt caggctgacg gtcagatgcc cggtgacaag accattgggg 240

gaagtgatga tgctttcaac aacttcttca atgagactgg tgcttggaaa gacgttcccc 300

gggctggttt tggtggccct ggacccaatg gcaatcatta agggagaacc ggcaccttac 360

ggcaggtttt tcaaccttag caggttatta atgggaagga agattcaacc cacaactttg 420

gccgtgggca c 431

<210> 40758
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G4

<400> 40758

gcagcctcca ataagagcca gccagagaaa ctaataaaac tctcgccgcc gccatccgag 60

cgaacaagcc aaccgacccc gtgcccaagg caatccgccg ccgacgtacc accaccaccg 120

caggagcgag atggagatga agaggatcct cttcgccgtc ctcgtcgtca tcgccgcctc 180

ggccaccgca gtgctggcct ccaccgaggc cgccgccgcg ggcgccccaa ctgcctccga 240

gtcgtccgcc gaggctcccg ctggcgctgg cgctggcgct gccgcttgcg ccggcggctt 300

gggggccttc ggcagcagcg gcgcgcccgg cctcggcggc cggcccggcg ggcttctttt 360

cttccttctt ggcttctaac ttcaattaac ctgttccttc cgtccgtccc cccgcttggc 420

caacaatgga 430

<210> 40759
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G5

<400> 40759

gccggcgtcg gctccgccat cgagtacgcc gtctgcgccc tcaaggtgga ggtcatcgtg 60

gtcataggcc acagccgctg cggcgggatc aaggcgctcc tctccctcga ggacggcgcg 120

cccgacaagt tccacttcgt ggaggaatgg gtcagggtcg gcgccccggc gaagtccaag 180

gtgctggccg accacgcctc ggcgcctttc gaagaccaat gctccatcct ggagaaggag 240

gccgtcaacg tgtcccttga aaacctaagg tcctacccgt tcgtcaagga agggcttgaa 300

aaagggaccc tcaagctggt cggcggccat tacaacttcg tcaatggaaa gttcgagaca 360

tgggaaccct aagtggcctt acgtaccaaa tccgcccaac cggcctaatt tgc 413

<210> 40760
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E9

<400> 40760

cccacgcgtc cgcggacgcg tgggttctca aactagcgga actttggaaa ggccttgtag 60

tgctaccctg cctctcttcc tcggtagagg tgtatggggt ccgatcaacc ccatggcaaa 120

tgggtaacac gacttgtggg taaagatgcg caacctctac agagtgtaaa actggtatat 180

cagacatgct cacgtgcatg agcgactcag acactcacat ggttaactta tagaattaaa 240

ctcaaattgt catttgcatt gcattgtggg tgttattatc aattgtgatc tcatatttaa 300

ttgggttggt atctacttat accaggtaac tgctaataca attttgacga acactaaaag 360

caatgctcag ctttaaccat ctcctttggt aagccttaca cttacatgag ttcccacctt 420

ttttgagttc at 432

<210> 40761
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G7

<400> 40761

gccagcggag cggacggcga cggccgcggc gggttcgtcg acgtcggccg cctctacgcc 60

gacgaggaga gggacttgct cgtcaccgtg cgcgtcccgc cgtcacgcgg gaccatcgcg 120

ctcgtccggc cgagctgcac ctaccgcgac gcggccacca cggagatggt gcgggtgggg 180

ggcgacccgg tgacgctgct ccgcgcggcg agcccggtga gcgcggcgat gtccctgcag 240

gtggagcgcg agtggcaccg cgtccacgcc accgaggaca tggccgcggc gcaggccgcc 300

gcagaggagc acgactacgc ccgcgcggct tcgatcctcg aggcccgccg ccggctgctg 360

gagtcgtgcg cgtggctgtc ctcggaccag c 391

<210> 40762
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D3

<400> 40762

gcccagttgg atcgacttgg tagaccaatc ggaggtgatg ctggggctca gttgtacaca 60

atcttggata tgtgtcgtgc atttgaccgt gtctttaaag agcacttgga cggagggcgg 120

ccaggtggag atcggattta tggtgtcttt gacaaccagt tacctgcagc actgaaaaag 180

cttccatttg accggcatct ttcaatgcaa aatgttcgta aagttatttc agaagctgat 240

ggttaccagc cccacttgat tgcccctgag caaggataca gaaggcttat agatagttct 300

ttaagctact ttaagggtcc agctgaagcg tctgttgatg ccgtccattt ggtcttaaaa 360

gagcttgttc ggagatcgat tgcagcaaca gaagaattga agcgattttc aacacttcaa 420

tcggata 427

<210> 40763
<211> 104
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D4

<400> 40763

ggcatgcttg aacgcctcgg ttcaaaaatc actgtagatg ctacggctca attgatcact 60

atcgacattg tctctgttga atctgaccgt gtctctatag agca 104

<210> 40764
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D5

<400> 40764

cccacgcgtc cgatcgagct ttcgttatcc tcctcgatct taattacagg tcatagctaa 60

gcaggtctga caggatgtcg tggcagacat acgtcgatga gcacctgatg tgcgagatcg 120

agggccacca cctgacctcc gctgccatag tcggccacga cggcgccgtt tgggcccaga 180

gcaccgcatt cccacagttc aagacagagg agatgaccaa catcatgaag gacttcgacg 240

agcccgggtt ccttgccccg accggcctct tcctcggccc caccaagtac atggtcatcc 300

aaggcgagcc cggcgctgtc atccgcggga agaagggatc tggaggcata actgtgaaga 360

agacagggca agcgatggtg gtcggcatct acgacgagcc catgaccccc ggccagtgca 420

acatggtggt 430

<210> 40765
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D6

<400> 40765

cggacgcgtg ggttcgaata acacaggtga gcgcgacgat gggatccctc gctaataaca 60

tcatggtcgt gggcgccgtc cttgcggcgc tcgtcgccgg cgggtcgtgc gggcccccga 120

aggtgccacc cggccccaac atcaccacca actacaacgg caagtggctc accgctaggg 180

ccacctggta cggtcagccc aacggtgccg gcgctcctga caacggcggt gcgtgcggca 240

tcaagaacgt gaacctgcca ccctacagcg gcatgacggc gtgcggcaac gtccccatct 300

tcaaggaccg caagggctgc ggcttatgct acgaggtgag atgcaaggaa aaacctg 357

<210> 40766
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D7

<400> 40766

ggctgacgca cggttagcgc aacatgtgga gaaaggaaat gaggatggtt tgatgataag 60

ttcaatatca tcatgcgcaa atctgttggg caatcattat ggatgcagga actggcttct 120

cagctcaagt atatgagcta tcttcacact ttcttcataa ggagtggatc atggaacaat 180

gggataaaag tttctacatc agttctgttg ctggctccaa caatggaagt tctattgtag 240

tgatgtcaaa aggcacacca tatacacagt aatcttataa 280

<210> 40767
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D8

<400> 40767

cccacgcgtc cggccacgcg tccgtccacg cgtccggcct ggcctgggct ggccgcctcc 60

gaccaccgta cgtcctgcac cgcgtcgccg acggccggcc tctgcccagc ccgggctgcc 120

tgcgagggct tctgatggcc ctcgacgccg tcctttcctg ctagtgccca gctttattgc 180

agatccaggc ctctgatcct cgtcttcttt cacctctcca acatgaaggt caacaccaag 240

atcaagctgg agccggtcat ggcgccgtcg tcgtccctgc cgcggagcgc cagcgagcta 300

cccgaccc 308

<210> 40768
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-033-Q1-K1-D9

<400> 40768

gatcgggcag gttttccagg gaccagctca acgacgactt ctgcgactgc cccgacggca 60

ccgacgagcc cgggacatct gcatgccctg aggcgaaatt ctactgcaag aatgcaggcc 120

acactccagt cacgatcttc tcgtcacgag tgaatgacgg catttgtgat tgctgtgatg 180

ggagtgatga atatgacagc aatgtcacct gtaagaacac ttgctgggag gctggaaagg 240

tggcaaggga gaaattgaag aagaaaattg ctacatacaa aaatggtgtt gttattcgga 300

aacaggaagt tgaaagggca aaagaggctt ttgctaaaga tgaagcagat ttagcaaaat 360

tgaagggcga agagaaaatg ctccaaggac ttgttgataa actcaaagag canaagaaat 420

taatagagaa tgcaga 436

<210> 40769
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E1

<400> 40769

aaggccgcca acatcctgct ggacaacaac ttcgaggcca tggtggcgga cttcgggctg 60

gccaagctca cgacggacac caacacgcac gtctccacgc gcgtcatggg caccttcggc 120

tacctggcgc cggagtacgc gtccagcggc aagctcacgg acaggtcgga cgtcttctcc 180

ttcggcgtca tgctgctgga gctgctcacg gggcgccgcc ccatcgatac caccaactac 240

atggaggaca gcctcgtgga ctgggcgcgc ccgctgctga gcgccgcgct ggcgggggga 300

gacgggcttc gccgagctcg t 321

<210> 40770
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-033-Q1-K1-E10

<400> 40770

aggagacgtc ttccggcgac gagaacaact acgtgagcgt ggccgccgac tacgagaagg 60

ccgtgggcgc cgtcatcgcg gcgacgccgg acaacaagct ccgcgctatg gcgttcgcgt 120

tcgacggcgc ggcggcgccg gacccgggcc ggtgccccgc cgtcgacaag cccttctgcg 180

agacctacgc caagacggag aaggccttca gcggaaccat cgcctacggg gacacgccca 240

agagcaagct ggggatcacg gacgccgtgc tcaagctgag gctcgccacc gacgccaaca 300

tcaacaaggc ctacgcggag ggggacaagg acaagatcgc aaaaatcctt gctgcatacg 360

gccaggcgga cgacgcggtc gctgcggccc cgcctcccga gaagctcana gtcatggaga 420

<210> 40771
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E11

<400> 40771

cggacgcgtg ggcggacgcg tgggggattg tgaggtaaag cgtgatggca gcgccaccgg 60

cgagggcccg agccgactac gactacctca tcaaactgct cctcatcggt gacagcggag 120

ttggaaaaag ttgtctcctg ttacggttct cagatggatc attcaccact agctttatta 180

ccactattgg cattgacttc aagataagga ctgtcgagtt ggatggcaaa cggattaagt 240

tgcacatctg ggacactgca ggccaagaac gtttccgcac gattactact gcttactaca 300

ggggagcaat gggcatcttg cttgcgtacg atgtcacaga cgagtcatct ttcaataaca 360

taagaaattg gatcagaaac attgagcaac atgcttcgga taacgtgaac aaaattctgg 420

tggggaat 428

<210> 40772
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E12

<400> 40772

cggacgcgtg cgctgacgcg tggtggattg agaggaacag cgctgaggaa gtgttaccgg 60

atagggcccg agcacggtac gattacctca tgcaactgat actgatacga gatagctgag 120

tcagacatgg gacgaaaatg ataaagctct gagagagcga ttaacac 167

<210> 40773
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E2

<400> 40773

tgagcacttt cattgctcat aaggtggaga tgcaagacca tgaatgtgca tgcttgagta 60

gttcaagtgc agacaccttc cgtgcagagc aagcagcaga ctcgtgttag acacactgtt 120

gatcgacaca gtacatgctg acagccttct ggcactgatt cattcatgca ccggttcagt 180

cctgggttga atgttcatga gtcatgaacc aaacacgttt tgggcatata gctatgttcg 240

ccatggtact ctttacgcgg gtcttgagtt caccggtgtt gatgccagaa aagacaatga 300

taacaatgat attcagattt aggcatctga gaaaccagat actaagatat tgacaggaac 360

atgatggctc tgtggacatg acacgaatgt gattaatggg actgaaacat gttctgat 418

<210> 40774
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E3

<400> 40774

cttagataag tagtaaggct ctaaaatgtc acaaaaatcc acaaggccct caagtagtag 60

tagtaggtgg tgtactctag ctagcacgaa gtggatagat catgcaaggg cgcagtcgac 120

tacgggtctc ctgacatcag tgtcctacgg gtatctcaag gaccatgaaa acatcgtata 180

ctgctgcaat catgttgtcg tacttcggaa ggacttccat ggtgtcaaga atgccaaggc 240

ctt 243

<210> 40775
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E4

<400> 40775

agacttcatt gaaagtgtga ttaagaagaa ccaaagcata aatgggcatc acaagaacat 60

aaccttcagg tgtgccgatg tgacatctaa cgacttgaag attgaagata actctggtga 120

tctgatattt tcaaactggc tattaatgta tctttcagat gaggaggtcc aaaagcttgt 180

ggggaaaatg gttaaatggt taaaggtcgg aggccatatt ttctttagag aatcatgttt 240

tcaccaatct ggagattcca aaaggaaggt gaacccaaca cactatcgag aaccaaggtt 300

ttataccaag gtatttaaag agggccattc atttgatcaa gatggaagtt cgtttgaact 360

ttttctagtg accttgtaat gcatttgggc ttatggtcaa aaccagaaga attaaaaccc 420

gatatgc 427

<210> 40776
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E5

<400> 40776

cgacagctat attatgttcg acggtgtaac accctgaatt tgagggtata aaatttcttc 60

tccaaatacc aaccaaattc aggggttacc tcttgtctct ctctctcttt tccttttgat 120

taaaagtaag tgaattaggc gagggtttaa ttatttattt tgtcaaaact tatgtgagtc 180

atgaaatgtt gcatcatgct gagcct 206

<210> 40777
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E6

<400> 40777

gaagaccagg atgcttttgc tatccaaagc aaccagcgtg gaattgctgc tcgtgacagt 60

ggtgcttttg catgggagat tgttccgatt gaagtttctg ttgggagagg aaaaccacct 120

gtacttattg agaaagatga aagcctggat aagtttgacc cagcaaaact gaagaaactt 180

cggccaagtt tcaaggagaa tggtggtacc cgtaccactt gaaatgcctc tagtataaat 240

gatggggcgg ctgcattaag tttggtgagt tggccaaaag gttaagaact tggccttgaa 300

gttctttgaa ggatccaaag attttccaaa tccagttaag gttccgaacc tgttaacacc 360

aacccaagac ttggcaatcc caaaggtttt ttaaatgcct gatttaaagt catccaatgt 420

ggatttt 427

<210> 40778
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E7

<400> 40778

gaagaacaag aagtaccttg cagttgctgc gccagatgag ggtgcccaga cccttctggt 60

tcaggccatt gaggcttttg gtgggaagtg caaccctgag gcgctgaagg aggttcccgt 120

tgtcctcaaa gccctctacg atggagatat cctggacgag gaaaccatcg tggactggta 180

caatgatgct gtcgcagctg ggaaggactc ccaggttgtc aagaatgcca agccgttcgt 240

cgagtggctc cagagtgccg agtctgatga agatggtgac gacgagtgaa gaagccacgc 300

tgctctactg ctaatggcca aacttgataa tattatttca ataagtttgt tttgcttgcc 360

tggtgtccgc gtttaaaact gttaattgtc gtgtggcgca gcatactctt at 412

<210> 40779
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D12

<400> 40779

attgggactg tacaaaatat gttgtgcatg gctgttgata ccaacggaag cttggtgtgc 60

taaagggtgg agcacctgca acagtggata aaccaaaacg acgaacacca gcatttacag 120

gaagaagttc aggacaagat aaatctcatc gttcaagaag catgtccact agcccacatc 180

gtccacgtgt tcgtggaagg tctccagcct tcaatatgtt aacttctgcc tttgagaaca 240

cgagcaatac caggaacctt tccacccctc ccattgttgt gagaaagcct ttctcaaaat 300

ctggatgtcc tgaacactca agggtgtcac ccaaaaaatc agctatcagt tccctcacca 360

ggtcttttga aggtcacatg aaaagtacaa taccaaattc agtaaaagtg agccctgagc 420

taaagaaggc gacacaggaa gaag 444

<210> 40780
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E8

<400> 40780

gatagggatc ttgacacgcc tatcacagag gctgggttta ctggcattgg tgttggtgca 60

gcttatcatg gacctcggcc tatgtataga gttcatgaca tttaatttct cgatgcaagc 120

tattgatcat atcattaatt cagctgccaa gtcaaattat atgtcagctg gtcagatatc 180

tgatcctatt gattttagag gaccaaacgg agctgctgct ggagatggtg ctcaacactt 240

acagcgatat gcaacttggg ttggacaagt tccaggactt aaaggtccta aaccatactc 300

ttc 303

<210> 40781
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B6

<400> 40781

cgttcgcgac gggtgcggcc agtgcggagc ttcggctttg tgcatacaac tccattcaat 60

agccatggcc acaaagtgtt tgtccaaagc ccattgatac ccggtcatgg cgatggatct 120

aatgtgccag tcatggatga cac 143

<210> 40782
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-033-Q1-K1-B7

<400> 40782

gcgaccatgt cggggcgtgg caagggcggg aagggtctgg gcaaaggcgg cgccaagcgt 60

caccgcaagg ttctccgcga caacatccag ggcatcacga agccggcgat ccggaggctg 120

gcgaggaggg gcggcgtgaa gcgcatctcg gggctcatct acgaggagac ccgcggcgtg 180

ctcaagatct tcctcgagaa cgtcatccgc gacgccgtca cctacacgga gcacgcccgc 240

cgcaagaccg tcaccgccat ggacgtcgtc tacgccctca agcgccaggg tcgcaccctc 300

tacggattcg gcggctgaga ggcgctaccg ncgctggtgg ccgtggcaaa agtcttgggt 360

cgcggtcaag aaatcgagag tattctggat gacgtgctta ggttcgt 407

<210> 40783
<211> 138
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B8

<400> 40783

cagtcgcatg gctcgagcga ccatgcttcg gcttggcaag ggcgggaagg gtctttgcca 60

atgcgtagcc aagcttcacc gtatggttct acgcgacaac atccatggca tcacgaaccg 120

gcagatgctc aggctgat 138

<210> 40784
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B9

<400> 40784

ggcttctact ccccctctta ccaagtcctc ttcgggttag ggttacttaa ggttttgtgg 60

aggggcgatg gcggcggctg atgtggagta ccgttgcttc gtcggcgggc ttgcctgggc 120

caccagcaac gagtcgctgg agaatgcctt cgcctcctac ggcgagatcc tcgactccaa 180

ggtcatcacc gaccgggaga cggggaggtc tcgcggcttc ggcttcgtta ccttctccta 240

cgagaactcc atgctcgacg ctatcg 266

<210> 40785
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C10

<400> 40785

gagtcatggg gttttacaaa ggaaatggtg ccagtgtgat gagaattgtt ccttatgctg 60

cattacattt catggcatat gagcggtacc ggtgttggat tttgaataac tgtccctcac 120

tgggaacagg gcctttagta gatcttttag ccggttcagc atcaggggga actgctgtat 180

tgtgtactta tcccttggat ttggcccgga ctaagcttgc ctttcaggtc aatagttcag 240

atgaactcag cagagctttg aaaaggggaa gtccccagcc agcatatgga ggaatcattg 300

atgtctttag atgtgtttac tcagaaggtg gagtgcgggc tctttaccga ggtgtaggtc 360

caacactcat ggggatactt ccttatgctg gtcttaagtt ctacatatat gaagggctga 420

aggtcat 427

<210> 40786
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C11

<400> 40786

acgcctcgca ggtaccgatt ccaattcgac ggacgacgcc acgcgtacgc ttcattgacc 60

tcgacgacag ctacaactga agtgcgcgct cgatcgatta caccctgact gtagagaccg 120

tgcagtggca gaacacacat cgaggctgag ctgatcaagg agcatgctca actttgtctg 180

ctccttgatc tgcctgcaga acgtcaagta taatggtggc gcacctgtat gatcacttaa 240

gtgcgaaact atcagaggat gcacttta 268

<210> 40787
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C3

<400> 40787

ggctgggcga ctacctgctc gaacagggga tgtaacaaca acccccttccc ctggaatgca 60

tgttgatgat gttgctcgtt ccaacttcgt tttcagtaat aataacaaca aagcgaagac 120

cctgctacat accctatttg cttgagcgga tctcgtccga gccacaagat accacatgtt 180

gcgctgggaa tattcagtta ctatgacccg ctttagttga cctatttttt tgggggggcgc 240

ggttcgatca ttctggctgt agcgtgaatc gcatggacaa cagaatgcac ttgctaagca 300

aatattgctc ttatgcatat atttgaagaa ccatgtacaa gcccgacttt cgcaaagtaa 360

tgctggaaat tgagttataa atcacacgac atactttaaa ccatctgct 409

<210> 40788
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C4

<400> 40788

cattaacacc ggcgccaccg ccagcacaca ccagctcgcc ggagatcaca agaagataca 60

ggaccgtgct cctcgacgcc gcccgacatg gcggacgccg cctctggccg cggccacgtc 120

gtctaccctc cccgctccgc cgaggacatc ttcaaggact accgcgcccg ccggtccgcc 180

atcctccgcg ccctcactca cgaggtcgaa gacttctacg cgcagtgcga tccagacaag 240

gagaacctgt gcctgtacgg ctacgccaac gaagcgtggg aagtggcgct gccggcagaa 300

gaagtgccca cggagctgcc ggagcc 326

<210> 40789
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C5

<400> 40789

acttatacgt tcacttatgc gtgatggtac tgagtatgtt gctcggtact ctcgcaagtc 60

tctccgagta cttggaagtg tgggtgagcc aatcaacccc accgcatgga ggtggtttta 120

tgatgttatt ggtgactcac gatgccccat atcagatact tggtggcaga ctgaaactgg 180

gggattcatg atcactcctt tacctggtgc ttggcctcaa aagccaggat cagcaacgtt 240

tcctttcttc ggtgtgcagc cagtcattgt tgacgagaaa ggtcgagaaa tggaaggaga 300

atgcagtgga tatctttgca taaagaaatc atggcctggg gctttccgga ctctgtatgg 360

agataaagag agatatgaga cgacatactt caaaccattt gctggatatt atttctcggg 420

cgatggctg 429

<210> 40790
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C6

<400> 40790

gccggtcgcc atggcaccgt tacggcgctg ggcagacctg ccggcagatc tcctctgccg 60

catcggagac cggctcgacc tcaagtggta cgccagcgcg cggggcgtct gcacggcgtg 120

gcgctgcgcg ctcccgccgc cgtcgcccgc gctcctcgtg gtcgctgacg acgctcgatg 180

ttgcccctac gctgcctccc tccccacgcg gaggtcattc gagctcaccg ccatcgtctc 240

gggaagccgc tgcattggct ccagcaacgg ctggatcggg ctcttcggcg tcctcttcaa 300

cgggaagaac gtcttcgggc ttcttaaacc catcggccgt tgggagaacc ttcttccggc 360

ggttgtccaa taaaagccgt tgggtttcca aggccgcttt aacccgaagc ccg 413

<210> 40791
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C9

<400> 40791

gagacttcct cgcctacatc ccatcccgcc gccgccgtct ctacggtcgc taataagcag 60

ccgcatccag ggatggagat gaagaagatc gcctgcgccg tcctcatcgc cgcctcggcc 120

accgtggcgc tggccgcgga ggcgccggct ccgtctccca ccagcggctc ctccgcggtc 180

gcacccgcca tcgtcggggc cgacgtggcc tccttcttcg cgtactacat tcactgagcc 240

gccggacgag gagccggagc cggagggaag agaccaaggt gggggggagag acttggctgc 300

gctgcgctgc tctgctgctc ccgcgcattc ccgatgcgtg ggcgtgctct gattgggcac 360

ggcggtggca gtggcacacc ttcgtcttcc ttatgaatgt ttttttttcc tttctctttc 420

tacttgattt tcat 434

<210> 40792

<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D1

<400> 40792

gccatgtatg tcgccatcca ggctgtgctt tccctgtacg ccagtggacg tacaactggt 60

attgtattgg actctggtga tggtgtcagc cacacagtgc caatctatga aggttatgcc 120

cttcctcatg ccatcctgcg ccttgacctt gctgggcgtg acctgactga cagcctgatg 180

aagatcctca ctgagagagg ttactccttc accacctctg ctgaacgcga aattgtaaga 240

gacatcaagg aaaagcttgc atatgtggct cttgaatacg accaggagct cgagaatgcc 300

aagagcagct catctgtgga gaagagctac gagctgcctg atggtcaagt gatcaccatt 360

ggggcagaaa ggttcagatg ccctgaggtc ctctttcagc cttccttcat tggtatggaa 420

gctcctggca 430

<210> 40793
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B5

<400> 40793

ccgagaccga gcgtgagaga gagatcggga ggggagtgac gcagtcagag ctcgggagcg 60

gcaggaagag agaaaagcgg aagagcttcg tcgacagctc gtgtacagag tcgctctgtc 120

ctcgatagat ggcttgggag ggtcgtacag gcgtcccaat ggtgtcatga ccttacccca 180

cagaacttgg gcagtcgtgc ggaactttct cgacgacgtc gaggaaccac cggacttccg 240

ccctgcgccg tggtcagtgc tgatgctcgc gtggctcacc cgaggttacg agttgactga 300

acatcaccct ggttactggg atctcaagtg ccaagcgcgt tgagcccttg atccactctt 360

ggtacccaat aatgatcttt attatcacta ttca 394

<210> 40794
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D11

<400> 40794

cgagcgcaag aatacgacag gctcggccac actctggcgc tgtacgaact ggagcactgc 60

gagcggtggg cgtcggtgac cgttctggga gtgggagagg gcgaacacgg acgacgacaa 120

ggtccgggga agaagaagat gggtggctgt ccggggatgg ggagcaagag caagtcgttg 180

ttctgcgggg ccttcaatct cttctccaga tagccggcgc cgccgcttgt ttttgttcct 240

actgccgtga caaaccttct tgtgatttct ttatttgcct ttttgctaga agttcttatt 300

ttcatgtgta aattttgtac cattgccgtg ggttagaaaa tcacattttt cc 352

<210> 40795
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-H5

<400> 40795

tggcaattga gaaagtcttc atggctgaca acaactcagt tatagcagac gaggttcttt 60

cacatagact aggacttatt ccacttgatg cagatccaag actctttgaa tatatctcat 120

aaaacgatgt cccaaatgaa aggaatacta ttgtttataa actgcacgtt tcttgtccaa 180

agaattctca acgaattaca gtgaaatcta gtgaactaga gtggttacca gaaggtagcc 240

aattaagcat gtcagcccct gcacagtctg gagacaaaca gaagactttc acttccttca 300

gtcaaagcca aaaggagatc ttagaaaagc ctcttggtgt tggacaagag ttttttaaa 360

aatttttt 369

<210> 40796
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A1

<400> 40796

cagtcatctc ctccatcacc accaaactca acaacagcca gctcgcgaaa ataatgaaga 60

gccgcagcat ggcatcatcg gccgcgctct tggtgctagc cctcgcgcta gtggcggaca 120

ccgccccaca ggtagcggag gcaaagaaga agagagcggc ggagagcggc gaggcggcgg 180

<210> 40797
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A10

<400> 40797

cgcaggcccg attccaattc gacccacgcg tacgcgatcc gcgccactcc attcgcacct 60

gacctgcgga tctcatgcaa gctcaggatg gcggccttgc actgtgcagg aggccgactg 120

tctcacctag cacagctgcc tgactctgac acgcgctaac cgccctggct agtaccagca 180

tgcagatcaa cgtggctgct actacaaatc ggacgtacag agtctgcata gcctgaacca 240

tactggcatg gatcacgaca ctgcaccaga ggtgcatagc aacagttcag tacaagaact 300

ctggcccatc catggcgcaa agcaaaggtt c 331

<210> 40798
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A12

<400> 40798

tgaaactctg gttccgacat acttatacca cgctcatgga atcaatcatc atagaaatcc 60

tacaagagac tacctgtttg gcccatccct ggagcatact cgtcgtgcag tggatcatat 120

ccattgtaat gaagtgcacg gtcgaagcac ctgcgtccac tgacaggctg gaaggggacg 180

aaacaccaat ataggtctgc gtttgttgat cacttacaga gatcttactc ctgacgtagc 240

tttgcatcat g 251

<210> 40799
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A2

<400> 40799

attcttaggt gcattaatca tttgtcgggt gatcctaatt gtctcgagac acttcaacgc 60

acagatgcag tcaaacatct gataccgatt cttgagcttt gtgatggacc tctggttttt 120

caaatacata gtgaggtcct caatgctttg ttcaaccttt gcaagattaa taaaagaaga 180

caggaacagg ctgctgaaaa tggaatcatt cctcacttga tgaatcttgt catgtcag 238

<210> 40800
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A4

<400> 40800

cagacagggc gggggcggcg cgctcgccca ccaccaccac caccaccacc acggtgatcc 60

agtccaccat gcagtcgatc aaggaggtcg tcgtcggcca ctccgacgcc gacatcttgg 120

acaccctccg cgagtctaac atggacccca acgagacggc gcagaagctg ctgaatcaag 180

atccatatca cgaagtgaaa agaaaaatgg acaggaagaa agagagtgct 230

<210> 40801
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A5

<400> 40801

cggacgcgtg ggttcgacgc cactctcacg gccctccttg agcaagagca acaccacggc 60

cttgacaccg gggaccttcc gcagatcgac ggcctttcag aagtagcata ctacccaacc 120

gccaccgatg aggccaccat agggcaattc aaccagatgg ggcttccgac gaccttagct 180

gaacagatgc ttccaatgca gatgaacagc agtgcatccg ccttgatggc cctcacttca 240

gactaccatg aggggttcac aagggccgta ggttgaaggg tcaagggtct ggatggaact 300

atggatcaat tggaaactgg agccattctt tc 332

<210> 40802
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-033-Q1-K1-A6

<400> 40802

gagatacccg atcgccaccg ccgaccggac tcccctcaaa ggcggccaca gcacagcgag 60

catgggagac cggcatcagc atgggcctgg cagcggcgtg gaggacccgg cgacgctgct 120

gcggcgggtg cagacccgcg cgcccaactc gacgcaggtg gtggggttcc tgacgctgct 180

cgtctctggc gccgtgctgc tgctgctgac gggggtgacg ctgacgggcg ccgtggtggc 240

gctcgtcttc ctgggcccca tcgcgctgct caccagcccc atctgggtgc ccgtcgccgt 300

cgtgatctcc gncatcgtcg ccgncgcgct ctccgcctgc gccttcgccg gcggcgggct 360

tcccgtggcc acctggatgg accggtactt tacgggccgg caaccc 406

<210> 40803
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A8

<400> 40803

cggacgcgtg ggcgctaagg aggcgcccgc catggaggac ctcaactacc cgtccatcgt 60

ggtgccgtcg ctgcgcggca cgcagacggt gacgcgacgg ctgaagaacg tcggccgtcc 120

ggccaagtac ctcgcgtcct ggcgcgcgcc ggttgggatc accatggagg tgaagccgag 180

ggtgcttgag ttcagcaagg tcggtgagga aaaggagttc aaggtgacgg tgacgtcgca 240

gcaagacaag ctcgggatgg gctacgtctt ttggaggctc ggctggacag acgggaccca 300

ctatgtcaga agccccgtcg tcgtcaacgg ccttgcatga tctatcccag ttggggctac 360

ttgaagtccc taactacttc tactacctgg aggccctggg gaattttggg gcc 413

<210> 40804
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A9

<400> 40804

gaccacgtga acgaccaaac catatcatga tcgacgttgt gaatcacgct tggagagacg 60

gaagttg
cattaa tggggcgggt actacactag catgaagtgc tgacatgcct 120

tcattgcc
gtccg aatctcatag actttctcaa gccattcaac caacaacctt 180

ttcaaaggc
cgc actcctcaag tcaagatctc ttcgaagcga gctacagtat 240

gtcatcaacg 257

<210> 40
<211> 413
<212> DNA
<213> Zea

<223> Clone
B3075-033-Q1-K1-B1

<400> 40805

cccagggtcc aacgcgcg tggccac ggtggttgcc ggtgcggtcc tagccgcgga 60

gctgtccctc atctctgcg cgctgg ccatctggtc cagagccaca tgaaatacaa 120

caggtccagc aaggcccttg gaaac agacaaaccc aagaaatgtt gaataatatc 180

aagttgttgt tttataaccc t agaa cggagcgaaa agggtcccac aggatgattc 240

cttgcggcat gctcgggtgg aaa aaa aaacccttct ggcgaaaaga gagaattcag 300

tcgactcgtc atatttacca agcg a cctgttgtgg atcctggagt atgacctatt 360

taattcgttg atgttgtcgg tatagg ctacactaca ctcgttgacc ccg 413

<210> 40806
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locatic
<223> Clone ID: LIB3075-033-Q1-B10

<400> 40806

ccgccatcgc cgccgcgaca ccctcctcac cctc gggg agcgtcacgg cggcggggag 60

atgccgtacc aggacgcgga ccacaggctc cgcgcg gg tcgggagcgt cgagggcttc 120

ggccgccacg ccatcggggg cctctacgga gccatcc c gcgtcacgtc gctccaagac 180

gacgggcccg ggagtctgag ggaggcgtgc cgcgcggag agcccctatg gatcgtcttc 240

gaggtgtccg gcaccatcca cctccactcc tacctccgcg ctcctcgta caagaccatc 300

gacgggcgcg gncagcgcgt agtgctcacc gggcaggggc t 341

<210> 40807
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B11

<400> 40807

accgcatggg ctccatccgg atcaagaagg ggaggaaagg agaggttagg aaagtctgta 60

accagcacct gttatcagcc tgatctgcgt ctgcattcag cagcatgcgt ccgtacatcg 120

tcgtcggagt cagctcatca gcgtgccagc accagtatac acacgggact agctcgttcg 180

tggttactac gtttggggcc tcgcgttgcg tgattagagc tatctttgat gcatgtgacg 240

gcagtttaag ttagagaaga ttatcttggt cattgacttt aaggtcgcgt gcagtttgtg 300

ccagaaaatg tgtaactgcg tatgcatgca actatgcaag tacagtgttc aaaataaa 358

<210> 40808
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B12

<400> 40808

accacgcgta cggccacgcg tccgaccacg cgtgcgccca cgcgttcggc gagaaatccc 60

ccatttcatc agaaagcgcg attactgcta aacaagagcc tatatccagg tctataccaa 120

tcggatcgat cgcgaggacc ttatcatggg acgacgcttc ccaagaggct ccttcgcagt 180

gttctaccaa aggagacagc aaccacgagc aggagcagca cgagttcgtc gagaagacgc 240

tggcatccgc tggcttctgc aacgagaaga cccaggacat ctttgcccgg tggcattcgc 300

tcgaccggcc cttggacccc gccgtggtcg agcagctgct ggaacgcaag gtggaggacg 360

ccaagtgccg agagaggcgg tcgaaccaga ggctcctaat cgactctgtc aacgcc 416

<210> 40809
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B2

<400> 40809

agctgatgag ctttcaaaga ttgtgagctt ggaggcaaaa tataagtgta caaagcaaga 60

agttgaaagg gcagttgttt cctgtgaagg tgatctagaa agggccgagg aggccttgaa 120

gacacacaag caagaatcaa ctgcaatccc accaaagcct gaggggtctg gctattcaag 180

tggcttgcct aataagcccc aagttgtact tgcacagaac cctgcaaggc cttaaacaaa 240

tggattatca tcagtaggat ctcatcag 268

<210> 40810
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B3

<400> 40810

gcgaccatgt cggagcgtgg caagggcggg aagggtctgg gcaaaggcgg cgccaagcgt 60

caccgcaagg ttctccgcga caacatccag ggcatcacga agccggcgat ccggaggctg 120

gcgaggaggg gcggcgtgaa gcgcatctcg gggctcatct acgaggagac ccgcggcgtg 180

ctcaagatct tcctcgagaa cgtcatccgc gacgccgtca cctacacgga gcacgcccgc 240

cgcaagaccg tcaccgacat ggacgtcgtc tacgccctca agcgccaggg tcgcaccctc 300

tacggattcg gcggctgaga ggcgcta 327

<210> 40811
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B4

<400> 40811

gccatggcac tgttcaagtg catgtgcatc ttcttagtct cgcttctact cgccctcacc 60

ttcaccaatg cccaggaaga atcttcacat cggactctcc caccgttccc ctgcatccca 120

ggccagccac ggcccccgcg gttgccacct tgcccgccgg caccaaccga gtgctacacg 180

tcgctgtcgg gaatgatgcc gtgcgcggac ttcctcaacc acaacgag 228

<210> 40812
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E9

<400> 40812

aaaataattc tcagattttg gataacgatc tgctagacaa acgtgtcaag aagaaagttg 60

gcgggtgtaa actcagcctt gggtggttgg ccagatacag tatttgattc tctaatgtat 120

tcatgtatgg atgttgctga tctcttttat gaacaaaacg tgctg 165

<210> 40813
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-F2

<400> 40813

aatgaagagc cgcagcatgg catcatcggc cgcgctcttg gtgctagccc tcgcgctagg 60

ggcggccacc gccccacagg tagcggaggc aaagaagaag agagcggcgg agagcggcga 120

ggcggcggag gcgaagaaga tccaggacga cttctgctcg acgctgtgcg agggcaagaa 180

ggggacggac ctggtcgtgt gcaaggagtc ctgcgcgctc tcccagcagt ccaacctggt 240

gctgtacggc aggatccagt gcaagggcaa gtgcaccgag cagaagggca tcacggcgcc 300

ggccatgaag gtctgccagg aggagtgcga caaggcgtac gttgggtttg gggaaaaaaa 360

aaaaaatggg gggg 374

<210> 40814
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-F3

<400> 40814

cagagaacat cactacggag caggggaaga cgctaaaaga tgcttggggc gacgtgttcc 60

gcggcctaga ggtggtggag catgcttgtg gaatgggaac actgcaaatg ggcgaatatg 120

tatcaaatgt ttctaatggg attgacacct tcagcattcg ggagccactt ggtgtttgcg 180

ctgggatatg cccatttaat tttcctgcta tgattcccct atggatgttt cccatagcag 240

ttacgtgtgg caatactttt gttcttaagc catcggaaaa ggacccaggg gctgctatga 300

tgcttgcgga gctagcaatg gaagctggtt tgcctaaggg tgtcttttttt ggggg 355

<210> 40815
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-F4

<400> 40815

cactccccta ccgccacccc taaaactagc cccattccct taccagcgtc cgatcacact 60

gctgggtccc acgcttggat ggattccgtc ggtacaaatc ggcccccgct gcgccccgtt 120

gccgccgcag ctactcgacg cagcgcgctc ctgcgccccc ctagccacct cgggctcggc 180

aatcgttttg cggagactaa gcttgggatc gcgtcagggt gtggaggagg aggagggtat 240

tttggaaagg tacagggatt tgatgccttg cggagtacca cgacgaaagt tcagagcggg 300

aaggcgggga ggagtgtgac caaggaaatg ggacacactt 340

<210> 40816
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-F8

<400> 40816

ccggggacga gaacaactac gtgagcgtgg ccgccgccta cgagaaggcc gcgggcgccg 60

tcatcgcggc gacgccggac aacaagctcc gcgctatggc gttcgcgttc gacggcgcgg 120

tggcgccgga cccgggccgg tgccccgccg tcgacaagcc cttctgcgag acctacgcca 180

agacggagaa ggccttcagc ggaaccatcg cctccgggga cacgcccaag agcaagctgg 240

ggatcacgga cgccgtgctc aagctgaggc tcgccaccga cgccaacatc aacaaggcct 300

acgcggaggg ggacaaggac aagatcgcaa aaatccttgg cttgccaaaa atttttaaa 360

aaccccc 367

<210> 40817
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G1

<400> 40817

agcccatgaa gctctcttgg ggcgccatct ggaggatgga cactgccaag gcgctcaagg 60

gccccttctc catccgcctc accagcgagt ccggcaagaa ggtcatcgcc aaagacgtca 120

tcccgccgaa ctggagaccc gatgccgtct acacttccaa cgtccaattc tactagactt 180

tgaattccct tcgattcatc cggcgcggtg ggctatggac ctgcagcagc aagctaatta 240

agtttatata tattgcatga gagagcatgc accgctaacc atatatacta ctgagacttc 300

tgaattctag tatatgtaat ccttttttgtt tgggtttagg agggcaaact ttttttcccc 360

ccctttttttt 370

<210> 40818
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G2

<400> 40818

cctttagttg ccaatttaaa ggaacagtat aaggaatacc gatttgatgg cccaaaataa 60

gcagatcatt gttgtggtgg ctctcctttt tcttgtggtg gcaacatcat catcagtgtg 120

ggttgcagaa ggagccgatg acttaaaagt ttcttgcgtt aaagagtgca cccaaaattt 180

taacactccc gagggcaaga agatctgtga aacgatgtgt gccaacccta aaggaaggcc 240

tatcgacaga gttagagctg attgatcaat gctcatcttt atttgtagct agctatcatg 300

catgcgatga tggccttctt gattattatt atttcattcc ttcattggtt ttttttgggg 360

ggtttttttt ttttttttttt tgggggggtgt tttt 394

<210> 40819
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G3

<400> 40819

gttagcccga tcagatcgtt tttccctcga ggtgagagta agatgaggga gatcctgcat 60

atccagggag ggcagtgcgg gaaccagatc ggctccaagt tctgggaggt ggtgtgcgat 120

gagcacggca tcgacccgac ggggcggtac atggggacgt cggacgtgca gctggagcgc 180

gtcaacgtct actacaacga ggcttcgtgt ggtaggttcg tgccgcgcgc ggtgctcatg 240

gaccttgagc ccggcaccat ggacgccgtc cgcacgagcc cctacggcca gatcttccgc 300

ccagacaact tcgtcttcgg ccagtccggc gccggc 336

<210> 40820
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G4

<400> 40820

agagcatcat attgttcact cacgattcgt actgaagcat caaaacagaa acctaaagct 60

agacataata tgataataaa gaactaaata aaattaaggg ttcagaacga ggttgttact 120

cagcattaat caaataaatg aagcccttgg ctggagttcc aaactaaact actgcatctt 180

gttttccttt atcatgcccg tacttgcttc cttcttttat tcataccatt gattttattt 240

agttcttaat cattatatta ttgatagatt tatgtttatc tattcttttc tatattcctt 300

tattgttttc tttttcattt tgatctcttt ttttttcttt attgtgtttc ttatttttt 360

ttattttctt acttattatt gttatttatt tttttctttc cttttt 406

<210> 40821
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G6

<400> 40821

atgaccgcaa aggattgctg catgatgtgt ttcacatact atctgatctg gagctaatag 60

gccacagggt gaaggtggcg accacaccgt acggaagagt tgttgacctt ttctgtatca 120

ctgatggcat ggaactgctg cacagaatgg agaggcatga ggagacctgc tcggagctaa 180

catgtaccct gggcccttac atcaactgct aggtcgtacc agcagaatgg atccagcatg 240

ggttttcttt cctgccgcct gagatcggct aggaactgtt catggcggag cttgctgaca 300

ctgacag 307

<210> 40822
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-H1

<400> 40822

caagaaaatg aacaagaaca agaagcttgt taagaggctt gccaagaagt accatgcttt 60

cttggcatca gaggccatca tcaagcagat tccccgtctc cttggtcctg gtctcaacaa 120

ggcaggcaag ttcccgaccc tggttactca ccaggaatcc ctcgaatcca aggtgaacga 180

gactaaggca accgtcaagt tccagctcaa gaaggtcctt tgcatgggcg tcgccgtcgg 240

caacttggcg atggaggaga agcagatcca gcagaacatc cagatgagcg tgaacttcct 300

tgtttccctt ctgaagaaga actggcagaa tgtgagatgc cttctta 347

<210> 40823
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-H2

<400> 40823

tttgatattg agttctctgt cacacataag gagttggatt tctcccattt attggatcac 60

ctaagaagga ttctcagggg tcaggtctca ttatttgatt ggtccaggtc aacatcacta 120

gctaggacct tttctcctcg tgttttggag aaccaaattg atgccagaaa agagttggag 180

aaaagcctta aagctacctg tgaagagttt ataatgtcca taactaaatt agtagttgac 240

ccaatgcttt cttttgtaac aaaggaactg ccgtcaaagt tgcattgtcc tctggtagcc 300

agtgtcagaa attaaattca gttctagcaa aacccttga aagaaccttc taaaaatggg 360

gttccccccc ttttttttt attttt 387

<210> 40824
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-H3

<400> 40824

gttcttgctc gaggttttga ccaagcacag gttaaccttg tcatcaacta cgacatgcca 60

atcaaatttg gtacaagaga tgaacctgat tatgaggtgt acttgcacag aattggcaga 120

gctgggcgct ttggccggaa aggtgctgtg ttcaacttgc tgtgtggtca aaccgataat 180

gttgtgatga agaagatcga ggactatttc agcacagtg tgcctgaggt tcggaattgg 240

caacgtgaag aagattttga ggctgctctc aaggatgcag gtttacttta aagtaaccac 300

ggaaacttgt ggtgtttttt gctgagcctg ctgcacaacg tttattttgg ggtttttggg 360

ggggccccct ttttttcccc ctttttttt tttt 394

<210> 40825
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E7

<400> 40825

cggacgcgtg ggtattttta gaccaatcgc aaacagaggt ggttcatgtt atacaaactg 60

tatacgtaga tacacgcgtg tgggattaaa tcaatgatta aatcaatccc tacttcctct 120

gtggaaaaaa aatttgacca aactgtactg tgatgtgtaa caatgccaca acacagtact 180

tgaaggcaaa cgtatgtaga ttaattagca gaacgacaac ctgtgatcca tccttgcttt 240

cttccatgaa atgaaacgca gccagcgcga cctggcatgg ccaggccatg agctagaaga 300

agcagcctga tgcccaccgg ccttcagcac ggcttgcccg 340

<210> 40826
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C9

<400> 40826

cttctgcact tactccgaca accagcccgg cgtgctcatc caggtgtacg aaggtgagag 60

ggccaggacc aaagacaaca atctgctcgg caagttcgag ctctctggca tccctccggc 120

gcccaggggc gttccccaca tcaccgtgtg tttcgacatg gatgcgaacg gcatcctcaa 180

cgtgtcagcg gaggacaaga ccaccggaca gaagaataag atcacgatca ccaacgataa 240

aggacggcta agtaaggagg agatcgagaa gatggtgcag gaggcagaga agtacaaagc 300

cgaggacgag gaacaccata agaaggggaa cgccaagaac actctcgaga actatgccta 360

caatatg 367

<210> 40827
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-032-Q1-K1-D1

<400> 40827

aggaaaccta gacaagcgag gcggcggccc cgcgttctcc gtctccgtct ccgtctccgg 60

ccgcccggcg taaagaaaac gctccctcac cacagccgcc acgccatggc cgaggagacc 120

gacaccaggc ctgcctccgc gggctcccga ggccgccccg cgcccgagga cgacgacagg 180

gaggagggcg agatcaccga cctcgcctgc gctccttccc cgcccgccac gcacccgctc 240

gagcactcct ggaccttctg gttcgacaac ccgcagagca agtccaagca ggccgcctgg 300

gggagctcca tccgccccat acacaccttc tccaccgtcg aggaaattct ggggggnggg 360

gggggggggc ccccccttt tttttgtttt 390

<210> 40828
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D12

<400> 40828

ggacacaaag gaggcggcgg cggctgcggc gggagcgagc tagtcgcagc aactagcggg 60

tctggtgatt cccctgacgc agtcgccgtg gatgaggatg gggatctcgt tctggaccgg 120

aggagaagaa acaaatatgc tagaggtgac cgccatctgt tcactattca gcatggtgtt 180

accagctcgc ttaagagcgt tgggcttcag ccgtgcaggt ttggaaagcg gccttactat 240

tatctgactt gattctgcac gaaagctttt catcggcaaa ctttgatggt gttactgcca 300

ttgagatagg tgctggaaca gggttggtag gtttagcact agctcgagtt gctagaagga 360

ttttggtaca gatagaggca ctgatatcct tgataattgc ttg 403

<210> 40829
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D3

<400> 40829

gtaacacagt tgagcacgac gatgggatcc gtcgctaata acatcatggt cgtgggcgcc 60

gtccttgcgg cgcttgtcgt cggcgggtcg tgcgggcccc cgaaggtgcc gcccggcccc 120

aacatcacca ccaactacaa cggcaagtgg ctcaccgcca gggccacctg gtacggtcag 180

cccaacggtg ccggcgctcc tgacaacggc ggtgcgtgcg ggatcaagaa cgtgaacctg 240

ccaccctaca gcggcatgac ggcgtgcggc aacgtcccca tcttcaagga cggcaagggc 300

tgtggctcat gc 312

<210> 40830
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D5

<400> 40830

cggacgcgtg ggcccggctg cagtcccccg ccggtggtca cccataagga tgaccaccgg 60

cttcatggtg gggagaagca agccaggctg cggcttccct cctgccctca gcttcaagga 120

tgttcatcat cctcgctggg gtggaaggcg cgtcgagccg gggttctgcc tcccgcatgg 180

gccagcggcc cgcttcttcc tctagcattc gggggacgag aggggttcac cagccatgcg 240

aaggaggcga actttggcta cgcggcgccg gtcaggtgca ggcgctgaca gctgctgcgt 300

gcctggctct tggcctgcgt ggccctgccg ccgtctccga caactgtcgc ccttttttt 359

<210> 40831
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D6

<400> 40831

ggggggaaatg tgttaccatc aaaattagag gacatcacag agagtgactg gacaaggtta 60

gagaattacg caagtaccgg agaaaaggtt gaggtggagc tgataaattg cagtgtgaag 120

gggtttgttg tgtcacttga ctcactgata ggtttcttac cgtaccgtaa tcttgctaca 180

aagtggaaat tcttagcctt tgagacttgg ttaagaagga agggtggcga tcctttcttg 240

tacaagcaga gtttgggatt agaggatagt tttgaggtta atgacacata cctataacca 300

aaatctagct cagtttccaa aatagctggt tgatgaccca taagttaaaa aaaatttttt 360

ttctctcttt ttttttcttt tttttt 386

<210> 40832
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D8

<400> 40832

gagcaatggc ctctaggtca tccatcctgc tcgtcatggt ggtgctagct acgctattcg 60

tggttggttc gtgcaccacc ccgctcacct tccaggtcgg caagggctcc aagcccggcc 120

acttggtcct caccccccaac gttgccacca tctctgacgt ggagatcaag gagcacggtg 180

gcgacgactt ctcctttacg ctcaaggagg gtccgactgg cacttggacg cttgacacca 240

agaccccgct caagtacccc ctctgcatcc gcttcgctgt caagtccggt ggctaccgca 300

tcgccgacga cgtcatcccc gccaatttca agggccgggc aacccccccaa aaaaaccttt 360

ccccctttt ttaaaacccc ccaa 384

<210> 40833
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E1

<400> 40833

cccacgcgtc cgagtttgtg gactggtgcc ccactggatt caagtgtggc atcaactatg 60

agccaccctc tgttgtccct ggaggtgacc tggcaaaggt ccagcgtgcc gtgtgcatga 120

tcagcaacaa caccgccgtt gccgaggtgt tctcacgcat cgaccacaag tttgacctta 180

tgtacgccaa gcgcgcattc gttcactggt atgtcggtga gggtatggaa gagggtgagt 240

tctcagaagc ccgtgaggac ttggctgctc ttgagaagga ctatgaggaa gtcggtgcag 300

agggtgccga tgatgagggt gacgagggag acgactattg agtagccttt gggggccccc 360

tttttttt 368

<210> 40834
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E11

<400> 40834

tccacgcgtt cgatcggtca aagacaaaag atgattgctg tgagcatcat gtggtcatta 60

gtgcgtgtgc aggtgctggc ggcgatggca ctagcatttc tggtaggcgg tgcctggtgt 120

ggtcctccca aggttccccc gggtaagaac attacagcca actatggtag tgattgtcta 180

gatgccaagg caacatggga atggcaagcc aac 213

<210> 40835
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E2

<400> 40835

cggacgcgtg gggttccgcg cgggctcgcg cggctctctg gccaccagac catagaggat 60

ctctccaagg tcacttcctc gctcatgtca cctaagggcg accaagtcta ggcggaggag 120

gcagcgggtc gagggtcacc gaagaggtga tgaatggtgt gcgcccccgt ctggaacaac 180

ttcgtgctcc gtacacagag gacaatgtgc tgtgggtggt gttgtcggcc atgtacaaca 240

tgaggtgtgt gggcataggg ttgtccgaga acgacctcat tgtgggagtc gactgcgtgg 300

tgtatgaagc agtggtccta ggagacttcc caagaattc 339

<210> 40836
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E3

<400> 40836

agaacgtgaa cctgccaccc tacagcggca tgacggcgtg tggcaacgtc cccatcttca 60

aggacggcaa gggttgcggc tcatgctatg aggtgagatg caaggaaaaa cctgagtgct 120

cgggcaatcc agtcacggtg tacatcactg acatgaacta cgagcctatc gctccctacc 180

acttcgactt gagcggcaag gccttcggct ccctggcaaa gcccgggctc aacgacaagc 240

ttcgccactg cggcatcatg gacgtcgagt tcagaagggt gcggtgcaag taccccgccg 300

ggcagaagat tgtgttccac atcgagaagg gctgcaaccc caaactaccc cttt 354

<210> 40837
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E4

<400> 40837

cggacgcgtg ggaacgagat tcatagcctc acgcagcaga ttatgtactg ctatgcagtg 60

aatgggagat ctgcaaaccc agctcacctg tggctgacag gttgcagtgg tgaaatggcg 120

acccatcttc agagaattcc tgggtatgat aagtggatca ttgaaagggc ggccaggcct 180

tatattgaag catttgaaga ccgtaaagaa aacctcgtgt atcttacagc agatgctgag 240

acagtgcttg atgatctaga catgtcgaaa atatacatca tcggcggcct ggtggatcga 300

aacagatgga aaggcataac actgaagaag tcagcttgag gccaggggggg ggggaaaaaa 360

aaaaaatttt ttttttccc cccc 384

<210> 40838
<211> 303

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E5

<400> 40838

tcgggctcgt cgtcagagtc ggagtccgag tcgtcgtact cggggtccag cgtggagtct 60

gagatcgagt cggagttgga ttcggaggag gagaggccga cgcggcggcg caagacgagg 120

aaggaaaggg aggatgagga gagaaggccg aggacgaagg agatggagag gagaaagagg 180

acggagaagg cgaatgagag ggacaggatg aagatgacga acgaggacat gacgagtccc 240

tagctcatcg actagactta catcgctgtt cttaagcact tgtggcgatc attcgcgttg 300

ctg 303

<210> 40839
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E6

<400> 40839

tccacgcgta cgtgctggtg caagggatct tgccaagata cgagctgaga gcatagatcg 60

gatcattcat ccgtaatgcc gaacatccag cagtgcttgg atgccggcaa gggtgaggcc 120

cagggcgagt accaggcgga gcacgcggag cacagcgtca aggacaccgc cgaaagcgcg 180

gacgtcagtg cgcacctgca gaaggaccgc cccaccgaca ccgctgagca ggtggagcac 240

acggtccaag gcgtgaagga cagcgtcaag gacacggtgg ctggcgctgc gaacaccgtc 300

acgaacacgg tggcgggcgt tacggacacc gtcacgaaac ca 342

<210> 40840
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A8

<400> 40840

cccacgcgtc cgcccacgcg tccggcttgc ctcgctcggc tcacacccct tttcgtctcg 60

tctctgcctt tcctccgcaa acacagagcg caagaggaga gagagagaga gagtgagagg 120

ggagagagag ggctagggtt ttgtgccccc cacgcctcac gcatcgaatc cgagccgggt 180

cggggttgct gcgaatcgcc ggcggtgctt gggctgtgat tccattgcaa tggcatctga 240

aactgatgag aaagctaaga tggagagttt gacatctgct gcagcctttg tggagggtgg 300

cattcaggat gcatgcaaca tttgcctt 328

<210> 40841
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B1

<400> 40841

gctacgcacc accattatat tgatcgatct atgctgctgc tggtcgcaaa cgcaccgcag 60

cttcacgggc ggccctctcc cgaaaatcga gcaccagagt gttccaatcc cttctccata 120

taattattgg tgttagtttc ctgctttccc tagtccctcg caatcaacag atacctcatg 180

gacgatcagg agaacgagaa tgagcacgag aagcatgccg atgctgggac tgacgtcgag 240

gacgaagagg aggacgaaga tggccacaag cgtgtcgtcg ttcttgggcc ccaagtcccc 300

ctcaaggaac agctggagct tgacaaggat gatgagagcc tgaagaaggt gggaaaaaaa 360

ggggggggg gtaaaaaagg gggtcccccc c 391

<210> 40842
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B10

<400> 40842

ggtcagctga aggagctgca gacgactact aagcgtgcct gaagcagctt gttaagaacg 60

gtgtgatttc tatgttagcg gcgactggat ttccgaggtt tgatcttcag cttctgggaa 120

tgggacctga tggccacatt gcgtctcttt ttcctggcca gcctcttgtt aacgagaaat 180

agaggttggt cacatacatt aaggattctg caaagtcttc ttcagagaga agttcattca 240

cgttttcagt aatcaactca 260

<210> 40843
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B2

<400> 40843

cgcctttgac ctgctcgaga agtacaggga gagccatctc gtcttcaacg acgatatcca 60

gggaacagcc tccgtggtcc tcgctggcct cctggcggcg ctcaaggtgg tcggcgggac 120

acttgcggac cacacttacc tgttcctcgg cgccggcgag gccgggactg gcattgccga 180

gctcattgct ctcgagatgt ccaaacatac tgggtctccg atcgaagagt gccgcccgaa 240

gatctggctg atggactcca agggcctgat cgtggtgtca cggaaggact cgctgcaggc 300

gttcaagaag ccatgggcgc acgagcacga gcccgtgg 338

<210> 40844
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B3

<400> 40844

ggccggagat ctctgaagcc ttcgacgcgt ttagcatcca tcatgttggc atactgcgga 60

aagatcaagg atgagctcat tacgaatgct gtctacattg gcacccatgg caagggtatc 120

cttgctgatg atgagtccac tggcaccatt ggcacgcgcc tattccagaa tcaataggca 180

gaacgtcgaa gagaaccgta cgaccctccg tgagctacta ttctagcagc cctggtgcta 240

tacagtacat cacccatgtg atcctcttag atgacactat gcaccacaag accaaggatg 300

gctatccatc ttgatgatgt cctcaaggac gcaggcatca ctgcatggac atcaaaaggg 360

gggggttttt 370

<210> 40845
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B4

<400> 40845

gagaaggcaa agtcaaagga caacgattca aaagcgtccg ggcccggtgg gtccttcgac 60

atcaccaagt tgggcgcctc tggcaatggc aagacggata gcacgaaggc tgtgcaggag 120

gcgtgggcat cggcgtgcgg cggcaccggg aagcagacga tcctcatccc caagggcgac 180

ttcctcgtcg gaccactcaa cttcacaggc ccatgcaagg gcgacgtgac catccaggtg 240

aatggcaatc tgctggcgac cacggaccta agccagtaca aggatcatgg taattggatc 300

gagattctac gcgtggacaa ccttgtcatc accggca 337

<210> 40846
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B5

<400> 40846

ccgctttgag cagcttgaat ttgcccaaaa caaaaggcag aatgcatggc agcagtttca 60

aaccaagggg aaagccaaaa aggtggggtt cttctccggt cgcaagaagg agagcatctt 120

caagtcaccg gacgaccaca gaggtaaggt gggtgtcact gggagtggca agggcctgac 180

cgacttccag aggagggaga agcatctgca ccttaaaggt gggtccgggg atgcagcgga 240

tgatgacgag gagtaaactg aagaaccgag cctctgtttg tatcccgccg aacagacatt 300

tccatacctg ttctttagcg ccgacatggc ctcgagggga cttcttga 348

<210> 40847
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B8

<400> 40847

ggagaagaag tggagattga atacgaggtc gatggttggt attatgtgaa gaaaaggagg 60

cctggaaggg atggaaagat ggcaggtctg gttcctgttc tgtatgtgag ttcatgataa 120

cagccatgtg tatcgtttcc cacacttgtg gaagctgttt ggagttcatg ggcttaacaa 180

aaaggcacac tggaatgctc ccgagagatc ttcgcataaa ctcgtgcccg tcgtataggc 240

acgtggcctt gtggaagcag gtcatatcca gtcatcttgg ggttcgtatg atgctgcagt 300

gctgttcctg ggaaagattt acgtgttgat ttg 333

<210> 40848
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C1

<400> 40848

aagtgaaata cgagctagac aagaagaccg gaatgatcaa ggttgacagg gtgctatact 60

catcagtggt ctacccacac aactacggtt tcattccacg aacattgtgt gaagacggag 120

atccaatgga tgtgctggtg ttgatgcagg aaccggtgat acctggctgt tttcttcggg 180

caagggccat cggccttatg cccatgattg atcagggtga gaaagatgat aagataattg 240

cagtttgtat tgatgatcct gagtaccgcc acttaaccga tctcaaggag ctttctccgc 300

accgccttaa tgaaatccgt cgcttctttg aagactacaa gaagaaccga agg 353

<210> 40849
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C11

<400> 40849

gcttcgcgga catgagctgg gaggagttcc gtgcaacccg gctcggcgca gcgcataact 60

gctgcgccac gctcgccggc gaccaccaga tgcgcgccgt cgtcgccggc gtgctgccgg 120

agacgaaata ctggagggag gatgggatcg tgagcccagt gaaaaaccag ggccactgtg 180

gatcatgctg gaccttcagc actactggtg cgcttgaggc tgcatatacc caggcaactg 240

gcaagggcat actgtctttc tgagcaacag ctttgtgact gcggttttgc attcaacaat 300

tttcggatgt aaggggggge ctttcatccc aggcctttga atacatcaaa gacaatggtg 360

gtctttgaca ctgtggaggt gctaccctta ccaggggtca acgggatctt ggcagtcaag 420

gcttataatg ttggagtaag gtttgga 447

<210> 40850
<211> 337

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C12

<400> 40850

cgccggtatg gtgatccgca ggggttcttc gtacgccgtc gcggcacttc tcgcgctcgc 60

ctctgtcgcc gtcgtcgccg gcgagggatt cttccaggag aagttcgaag attgctggga 120

aagtcggtgg gtcaagtcct agtggaaaaa ggacgataac atggctggtg aatggaacca 180

cacctggggg aaatggaatg gagatgcaga ggacaaaggt attcaaacct ccgaggacta 240

caggttctat agcatttcag ctgaataccc tgaattcagc aacaaggata agaccctggt 300

gctgcagttc tcttggaagc acaagcagaa tcttgac 337

<210> 40851
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C2

<400> 40851

aaccagcaga ggctcctgtt gatgcagcat cttcagcaga agacaggatt gaaccaacag 60

caacttctcc aaatccaaca acagcatcca catctcaatg tccaacagct gattaagcag 120

caacaatttc tgaagcagtt tcagcagcag caaccgctac aatctcctcg tgttttagca 180

tctggttcac agaaatctgc gaatcttaca ggctcgcagc cgggtacacc attgtcaggt 240

ggaactatga ctggtggaag tggaagtcag ggagctgaag gaactagcca acttcttggg 300

aaaaggaaaa tacaagatct ggttgcacag gtagatccct tt 342

<210> 40852
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C3

<400> 40852

gagagatacc cgatcgccac cgccgaccgg actcccctca aaggcggcca cagcacagcg 60

agcatgggag accggcatca gcatgggcct ggcagcggcg tggaggaccc ggcgacgctg 120

ctgcggcggg tgcagacccg cgcgcccaac tcgacgcagg tggtggggtt cctgacgctg 180

ctcgtctctg gcgccgtgct gctgctgctg acgggggtga cgctgacggg cgccgtggtg 240

gcgctcgtct tcctgggccc catcgcgctg ctcaccagcc ccatctgggt gcccgtcgcc 300

gtcgtgatct ccgccatcgt cgccgccgcg ctctcc 336

<210> 40853
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C5

<400> 40853

ggaggcggag atggcaccgg tgtcggcgct cgccaagtac aagctcgtct tcctggggga 60

ccagtccgtc ggcaagacca gcatcatcac ccgcttcatg tacgataagt tcgacaacac 120

ttaccaggct acaattggta ttgatttcct gtcaaagaca atgtaccttg aagatagaac 180

tgtgagactc caactctggg atacagctgg tcaggaaagg ttcaggagtt taattccaag 240

ctatatcaga gactcttcag ttgctgtcat tgtattcgat gttgcaagca ggcagtcttt 300

cttaaataca tccaagtgga tagatgaagt tcgcactgag ag 342

<210> 40854
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C6

<400> 40854

gaatatctac gtagaaggat catgggacaa ctggacatca aagaaactgg ttgagaaatc 60

gcggaaaaga tcacaccatt ctattgatgc tttcatctgg agttcaccgt tatagattca 120

ttgtagatgg agaaagaaga tttatacctg accttccctg cgaaactaac aatgtgggtc 180

agattttgaa cctagtagat gtccatgact tcgttcctga cagcgtggaa agtgtatctg 240

agctcatggc ccctccctcc ccggactcca gctacggttt ccatgttccc ggcgaaaagg 300

agttctccaa ggagccttct cagctgccgg ccccacttct taacccccct ttttttt 357

<210> 40855
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A7

<400> 40855

catcgatgcg aaagcgtccg ggcctggtgg gttcttcgac atcaccaagt tgggcgcctc 60

cggcaatggc aagacagaga ggacgaaggc tgtgcaggag gcatgggcat cggcgtgcgg 120

cggcactggg aagcagacaa tcctcatacc caagggcgac ttccttgtcg gacaactcaa 180

cttcacaggc ccttgcaagg gcgacgtgac catccacgtg gatggcaatc tgctggcgac 240

cacggaccta agccagtaca aggaacatgg taattggatc gagattctac gcgtggataa 300

cctggtcatc accggcaagg gaaaccttga cgggcagggc ccaagccgtt gtttgggggg 360

gggt 364

<210> 40856
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-031-Q1-K1-G1

<400> 40856

ctcgccgtcc tcgtgttcgc gttcgccgtg ttcgcgttcg tggtcaccca ccggggcgcg 60

ggcggcgccg tgtccgggag cgggtacagg gagtaccgcc tcggggacta ctccggctgg 120

ctgcaggcgc ggatcgccga gccggagacg tggcggcgcg tcgagagctg cctctctgag 180

gcgcgcgtgt gcggcggccg ggaattctac aggcaacacc tctcgccaat ccagtccggt 240

tgctgcaagc cgccgacgtg gtgcaggttc cggtacgtga acgccacgtt ctgggaggca 300

ccgagatcgg ggctgtctgc ggcggcggcc agcgacggtg actgccgggc atggagcaac 360

gaccagcagg tgctttgctt cgagtgcgac acgtgcatag gccgcgtgct ggagaccgnc 420

aagaagaagt ggaagaca 438

<210> 40857
<211> 342
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-G4

<400> 40857

cacgtacaaa ccgagagcac acaccgtccc ccgcccgccc gccgccgcga cacgcgcgcc 60

atggccatgc tggctcgctc cgccgcgcac ctcttcttct tccttctcct cgtctccacc 120

gcgcccgccg tgcggaccat ccccgacgaa gcccgcggcc ccggaaacaa catccacgag 180

gcgtgcagca agacgctgtt ccccaaggtg tgcctgcacg cgctcaagga caaccccgag 240

tgccaggcgg tggcggtcac gccgcgccgg ctggccgagc tgctcgtgta cgtgtcggcc 300

gaggtgggca tgaccgttgc cgcgttcgcg caccacgagc tc 342

<210> 40858
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-G8

<400> 40858

atgataccat agatattata tggattccta aggttggaaa tttgtgtctt ccgagtccgg 60

tagaatagtt gcttcttcct gtctgacagt gaatttgatt ttgtatggat gtgacatata 120

tatgcctgac caattgtcat tatttgctat tcatatatgt tactgggtgt atttaatagc 180

tctcaattta tgcagttatg tttgcagttg 210

<210> 40859
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-H1

<400> 40859

gcagaactgc gacgagcagt tcaggcagat cggcgagaag aaccccatgg agcagttcga 60

cgcgtcgctc gtcgagatgt ccgagaactg ccgctcgctc tccaacatga tctgatcgat 120

ctccttctcc acggacgaca acagagagcc gggcgttttg ggccctcgca tcgtttgtcg 180

ccgctgctaa cgttcgcatg cccatgcccg cgagcgcgct ctcgcgcgac aataactgat 240

gagttaagtt tgttttgctt tgaccatctc acatcggtat ttcctgtaga gatgcgttaa 300

tttggtctcg gaaacgggga ggcgaattga ggtggaatat ttataattca agaaacacag 360

ttttggttct agaagaggat cgtcgatcat gctgctctac tcgatctcct cttctcgtta 420

cgaatttaat taaccgtttt gtatctat 448

<210> 40860
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-031-Q1-K1-H3

<400> 40860

cggcgttcaa ggccccggcg ccgggcttcg ccgtgcgctt cagcccccttc cacgagaacc 60

ggctcctcgc cgccacgtcc cagcacttcg gcctcgtggg caacggtcac ctcatcgtgc 120

tcgacctcgc cggcggcggg cccggggccg ccccgacgcc ggtcttctcc ttcccgacct 180

ccgatgcgct cttcgactgc gcgtggtccg agtcccacga ctccctctgc gccgccgtct 240

ccggggacgg ctccgtgcgc cttttcgacg ccgctcttcc gccggcgcag aaccccgtgc 300

ggctcctncg ggagcacgca cgggaggtgc acggcctcga ctggaacccc gtccgcggga 360

cgccttcatt ttcgccttct gggacgacac gctcaagc 398

<210> 40861
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-H5

<400> 40861

gagcagttct agcagatcgg tgagtagaac cccatggagc agtttggggc gtcgctcgtc 60

gagatgtcct agaactgccg cttgctctac aacatgatct gatcgatctt cttcttcacg 120

gacgactaca gagagccggg cgttttgggc cctctcatcg tttgtctgcg ctgctaacgt 180

tcgcatgccc atgcccgcga gcgcgctctt gcgcgacaat aactgatgag tcaaattcgg 240

cttgcttttg accatctgac atctgttatc tcctgtaaga gatgctttta atttgggctc 300

tgaaacggtg atggcgaatt gacgtggaat atttattatt c 341

<210> 40862
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A1

<400> 40862

gagcaaccag cgatcgcccc atggccgcca tggctcgttc cgtctccctc gtcgtggcgc 60

cccttctcct cctctccctc ctcgtctccg ccgcggccag tgcgcggacc gtgggcgaca 120

ccgtgcagga cgcgtgcagc aagacccagt tccccaagat ctgcgtggac agcctcgccg 180

ccaagccgga gagccagaag gcgacgccgc gcaagctggc ggagctgttc gtgaacatcg 240

cggccgagaa gggatccggg atggccacct tcgtgcaccg caagtacagc gacaaggagg 300

acagcgacat attcaagtgc tacgacagct gctccgacga cgtggagga 349

<210> 40863
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A10

<400> 40863

aggattttat attctattgg gggcacaggg cattgcatac gaaatggcta tacaaacacg 60

ttcacagcgt ccaccatgag tacgccacac cctgtggttt aacatcggaa tatgcccacc 120

cagctgaaat tttgttcctg ggattcgcca cagttgatgg tcctgctctt actggccctc 180

atctcttcac cctgtggctg tggatggtgt ttaaggtttt ggatacagtt gaatgttcac 240

aagtggctat caactttcca tggagcccat caaattttct gg 282

<210> 40864
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A11

<400> 40864

gcgatccgca ggcgggctac acacacatac atggcggcgg agggcgccgg aggccggaga 60

cgagccatgc ggtacccggc tgtgtcggcg ctcgtggtct ccgccatcgc agccttctcc 120

ggcgtgatcg tccttgccgt cgtccactcg gcgtacgacg acgccatgtc gcggacgcgg 180

acgctgctgg gccacaacct ggatccgacg ccgtggcacc cgttcccgca cgacaagggc 240

cggccgccgg cgctcgcggc gctgcggtac gcgccctcca tagcctgcct gctcgcggta 300

<210> 40865
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A2

<400> 40865

gatcccccca caccttgaga cctgcgttgt cacccaccca tcaaggttgg ggccgccagc 60

agagttcagc cgttcctgtt cctgataaaa cgagagaagg atggcagtgt ctcagggagc 120

tgtcctattc ttgtttctcc tcctcgtcgc agcagaggtg ggaaccatcg atgccaaaat 180

gggagtagcc atgcccatgc atgccttgat aatggagaaa gcgaaacagc aggagaagga 240

gaagaaggag gagaaaagca cggagaagga agagagtcaa tgcttatcgc cgagtctcca 300

gttcgagggc ttctgcttca acagcgacag atgcgccgta ggttgttgcc ccaaaaattt 360

tttttggggt 370

<210> 40866
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-032-Q1-K1-A3

<400> 40866

cggacgcgtg ggtgggatct caccgtttct tcctcgtctc cgtctctaca cggcggcgcc 60

gccgccgcca gctgctgcca ggagccaagc ccaagcctga gcttaaacca tgccgattgg 120

ttctcttttc gtgtcgaggc tggccaggtc tagccatgcc ctccccgctg ccgccgccgc 180

ggccatctct caggcgccca ggccccagca catcgcatct cctatattct ccggccttgg 240

agcagcggct cgtgatttca gctcaagggc tctatggaag ggagcattcg tcgatgcctt 300

cctggctaga ataaagaaga acagagaaaa catgaatggg aagaagattn tgggttcctt 360

ttttccccgg ggggtttttt taa 383

<210> 40867
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-032-Q1-K1-A4

<400> 40867

gctggaccaa agtttgagta tagatgggcc gatggggtgc agatcaagaa accaattgag 60

gtttcagcac caaagtatgt tgagtacttg atggattgga tcgaagctca gcttgatgac 120

gaatccatct tccctcagaa actcggaacc ccttttccac aaaatttcaa ggaagttgtg 180

aagacaatct ttaagcgact tttccgtgtt tatgctcata tttaccactc acattttcaa 240

aagattgtca gccttaagga ggaagcacat cttaacactt gcttcaagca ttttacattg 300

ttcacttggg aattcacgtt gattgacaag gctgagcttg ccaccncaaa acccctttt 360

ttttttttaa aaaatttttt ttt 383

<210> 40868
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-F4

<400> 40868

cgtcactcac tgcatcgttc gttcatccat caactactgg aaattagaga gccggatctc 60

ttggtcggag aacctgcgag gaaggactaa ggagtcgaag atgactgcgg cggtgctgtc 120

cgtgcgcacg acgacgacgt cgctgctagc agcagtcatc ctgtgcctct gcatcgtctc 180

cctctccccc cgcggcgccg ctgccgcgcg ggtctccccc ggcgccagcc cgatcgtggc 240

cacctgcatg acgggcccgt acccggagct gtgcgtg 277

<210> 40869
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A6

<400> 40869

atttgaaaca gttaagaatt catatataag agtgcatata tatatatata attctgccaa 60

gacaaaggta atggagtcgt cacgcatgtt ccagccggcc atcatcctgc ttctcctgct 120

cattgtgacc accgatgtgg cgcaggcggc gagggaatgc gagaaggaca gcgagcgatt 180

ccttggggca tgcatggcgt cggacaactg cgccaacgtg tgccgcggtg agggcttctc 240

cggcggcagg tgcagcacct tccgccgccg ctgcatctgc actaagccgt gctaaattaa 300

cctactcccg gcagttcgat ggtggacgtt tattctattt tatttttttg gggggggggg 360

ccccccccct ttttttttt 380

<210> 40870
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-B4

<400> 40870

cggacgcgtg ggcggacgcg tgggcggacg cgtgggtttt ttttttttt ttttttgggg 60

gtttttttt ttttttttt atattttcct ttttttgtgt taaattaatc cgaaggctcc 120

aggcctgggg gaaccctatc gctaattccc ttaacggtag tctccgctac catacattcc 180

atgaaaccca aagactttga tctctcataa agggccaccg aggtcctatt agttacac 238

<210> 40871
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-B5

<400> 40871

ctcagatgtt cttattttca actcagggca ttggtggact gccagcaaat tatttgacat 60

gggttgctat tttgaggctg gaggtgtgct taaactggga acatccatta acgctgcttt 120

caaaatggca ttggaaactt gggcttcatg ggtgaaagag agaattgatt taaggcgaac 180

acatgtattc ttccgtacat atgaaccgtc tcattggagt ggcttaaatc aaaaggtgtg 240

tgaagtaaca caacaaccta ccgctgaggc caatggaaat gacaggagag aatttgggga 300

tatacttgct ggtgttgtgg caaatatgaa tggtcctgtc acaagactaa atgtgacttt 360

gatggggccc ttttaagtgg tgcttatatt ggactttgga g 401

<210> 40872
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-C1

<400> 40872

gcggcactcg ctcgtttgcc cattgccctg ccgtgtcgac gcagattgat ccggtccgag 60

ccatcaccgt ggcgtagccc agctccgtct tgtcgtcgtg ggcgcgttca tggcggtccg 120

aactatcaag gtgaccaacg tgcctctctc ggcgaccgcg gagaacatga aggagttctt 180

ctccttctcc ggcgagatcg agtacgtcga gatgcgaatg gactcggaga cgtttcaggt 240

tgcttatgtc accttcaagg agtttcatgg agccgataca gctctgctgc tctttggatc 300

aagcatgtgg tggcaatgtt tccgtgaaca t 331

<210> 40873
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-C2

<400> 40873

gttcgttcct caagtgatct taatcgtcga gaagttacca gctagcggag atcatcgggg 60

gtgtcgaaca tggggcaatc cttccaggcc ggcaaggcgc aggcccaggg cgagtgccag 120

gcggagcgcg cagcgcagtg cgttagggac ggcgccggcg ccaccgcctg cgccgtgacc 180

gacaccgtcg gagccgcggc cgacagcgcg cagctgcagg agcaccgcgc cgccggcacc 240

gttcagcagg ctgctgagca ggtggcgcag acggcggcgg gcgcggtggc agccgtcaag 300

gacacggtgg cgggcg 316

<210> 40874
<211> 63

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-C3

<400> 40874

cacttgccga aagggttaca tcagcacaaa ataatctcag actataattg gtaattgtgg 60

gat 63

<210> 40875
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-D1

<400> 40875

ctcctgacca tttgccaaac cctacccata cccgcgtcgc cgccgtcgcc atgccgtccg 60

agctcgaccc gtcgcaggtg gtggaggtct tcgtccgggt gacgggcggc taggtcggcg 120

cggcgtcgtc cctggcgccc aagatcggcc cgctcgggct ctccccgaag aagatcggct 180

aggacatcgc caaggagacg gccaaggact ggaacggcct gcgcgtcacc gtcaagctca 240

ccgtccagaa ccggcaggtc aaggactccg tcgtgccttc cgccgccgcg ctcgtcatca 300

aggcgctcaa cgagcccgac agggaccgga tgaaggtcaa gaacatcatg ca 352

<210> 40876
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-D2

<400> 40876

gcaaggtggt ttaatcacat tgatgcgctc gtgaggctga gcggaattac tgcagagggc 60

caaggtgtga aggttgaatc ctcagcagtt ccttcagccc caactccaga tgttgctgaa 120

gcacaggccc cagctgctga ggaggaggac gatgatgatg ttgacctttt tggtgaggag 180

accgaagatg agaagaaggc tgctgaagag cgtgctgcag ctgccaaggc ttctggcaag 240

aagaaagaat ctgggaagtc atcagtttta cttgatgtga agccatggga cgatgagact 300

gacatggcca agcttgagga agctgttagg agtgtccaga tgggaaggct gctctggggc 360

gcattcaagc tttgt 375

<210> 40877
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-D3

<400> 40877

cgaccccgag attgctgaca tcatcgagca cgagaaggcc cgccaatgga agggtctgga 60

gctcatcccg tcggagaatt tcacgtcggt gtcagtgatg caggcagtgg gttccgtcat 120

gaccaacaag tacagcgagg ggtaccctgg cgcaagatac tacgggggaa atgagtttat 180

tgatatggca gagtccttgt gtcagaaacg tgctttggag gctttccgtt tggacccggc 240

gaaatgggga gtgaatgtgc aacctctatc cggttcgccc gtcaacttcc atgtatacac 300

tgcactcttg aagccacatg ataggatcat ggctttggat ctttctcacg gtggacatct 360

ttctcatggt ttccagactg acactaagaa gatatctgca actcaatatt ttttgagaca 420

atgccttaca gatt 434

<210> 40878
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-D4

<400> 40878

ggaccagaag aaaccagagg cgactccagg ttcgtgggcg atgctgcgcg cgggaggtag 60

gcagctcctt gccccggggc tccggcggct cggtctgggc accggcgccg ccggtgaggt 120

gggcccggcc gccgcggcgg cggggatgag ggcgtaccac gagcgggtgg tggaccacta 180

caacaacccg cggaacgtcg gttccttcga caaggaggac cccaacgtcg gtactgggct 240

ggtcggcgcg ccggcctgcg gcgacgtcat gaagttgcag atccgcgtcg acgaggactc 300

cggtaaaatc gtcgacgcct gcttcaagac ctatggctgc ggcttcgcca tagcgtcctc 360

gtccgtcgct actgaatggg tgaggggata accaatggat gaaggtctga caatcaagaa 420

tactgagatt 430

<210> 40879
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-D5

<400> 40879

cggacgcgtg ggctcgtctc accctccctc cctcacacaa ataataagga aaggtcccgg 60

ccttttcctc cgacatccac aaggggggag gggaaaacac gtacattcac ccggcggcaa 120

taatggcctc ggttccggct ccggcgacga cgaccgccgc cgtcatccta tgcctatgcg 180

tcgtcctctc ctgtgccgcg gctgacgacc cgaacctccc cgactacgtc atccagggcc 240

gcgtgtactg cgacacctgc cgcgccgggt tcgtgaccaa cgtcaccgag tacatcgcgg 300

gcgccaaggt gaggctggag tgcaagcact tcggcaccgg caagctcgag cgcgccatcg 360

acggggtcac cgacgcgacc ggcacctaca cgatcgagct caaga 405

<210> 40880
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-031-Q1-K1-E2

<400> 40880

cacgacaaga tggcgtgcac aaacaatgcg atgagagcct tgttcctcct ggtcctcttc 60

tgcatcgtgc atggtgagaa ggaagagtca aagggcatcg atgcgaaagc gtccaggcct 120

ggtgggtcct tcgacatcac caagttgggc gcctccggca atggcaagac agacagcacg 180

aaggctgtgc aggaggcatg ggcatcggcg tgcggcggca ctgggaagca gacaatcctc 240

atacccaagg gtgacttcct tgtcggacaa ctcaacttca caggcccttg caagggcgac 300

gtgaccatnc aggtggattg caatctgctg gcgaccacgg acctaagcca gtacaaggac 360

catggtaatt ggatcgagat tctacgtgtg gataacctgg tcat 404

<210> 40881
<211> 376
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-E3

<400> 40881

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggcg agaacatccg 60

gaaggttggc gaggcagaga aaaaccttgg tgcaggtgat gtcaatgtct atgcacagat 120

gattgatgat gctgagggcc tggacaagat tgagaacctg cagagccatg acaacaccga 180

gatatatgag aaggctgtga agatgctgga atcctactgg ctggaggagg aagatgatgc 240

catgccctca ggcgacaatc cccagaatgg cttcaacttt gggaaccagc cctctgtttc 300

atcatgtgga ttcaactttg gctgaagatg cccatttgga atggccgctg tgccattatg 360

ccttggctag tgctct 376

<210> 40882
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-E4

<400> 40882

accgaccatt cattcgcaag gccatcaaca atgtgttcta ccggttcatc tttgaaacgc 60

agcgccacaa tggcataggg gagctccttg agatccttgg aagcatcatt aatggctttg 120

ccttgccaat gaaggaggag cacaagctat tccttgcccg tgctctcatc cccctgcata 180

agcccaaatc tgttgcgatc taccatcagc agctgtccta ttgtattgtt cagttcgttg 240

agaaggacta caaattagca gatactgcga ttaggggtct gctcaaatac tggccagtca 300

caaactgtca gaaagaggtg ttgtttctgg gggagcttga agaagtgctc gaggcaacac 360

<210> 40883
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-B3

<400> 40883

ctctggggca gtgtcgtcat atccgtcctt ttctgggggt ttgcaaatca gattactaca 60

gttgaagagg ccaaagagtt ctacccgctg tttggccttg gtgccaatgt ggccctcatc 120

ttctctgggc gcacggtgaa atatttctca aacatgagga agaatttggg tcctggagtg 180

gatggttggg caatttcgtt gaaggccatg atgagcatag tggttgtact gggtcttgtc 240

atcaccggta tctattgggg agtgaacaag tttgttattg ataactcatc tgtgcccgtg 300

gttgagcgga ataagaatga ctagccaaag ctcaacatgg gtgaaagcat gaaaggtctt 360

gtgtcatctc ggtatgtgag ggattttgct tcattggttg gtgcttatgg a 411

<210> 40884
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-F3

<400> 40884

aagaaagctt ctgtcttttt caagactaat gctgatggga acacaacatg tgccaaggaa 60

atgacaaagc tctctggcat ctctgaaatc atccccgaga tggagatctg cgattttgac 120

tttgaaccct gtggctactc catgaatgcc atccatggct ctgcattctt cacaatccat 180

gtgacgcccg aggacggttt cagctatgcc agttatgacg ttatgggctt ggatgccact 240

gctctgtctt atggtgacct tgtcaagagg gtccttcggt gctttggccc ctcggagtta 300

tccgttgccg ggaccatctg tgggggggcgt agccatgccg ggacatgggg aaaggcactt 360

ggtg 364

<210> 40885
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F4

<400> 40885

atcaaatgcg tgcggcaaac gcatggaatg tgcttgccta gctagctaat tgttgttttt 60

ttttttcttt acttttcttc atacctgtct ctctctctcg gttgtttaat ttttcttcat 120

gcatgtaata taatgtgata tacccaat 148

<210> 40886

<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F5

<400> 40886

cgtcagcatc cgtcgcattg gccgagggta cctcctgcca aaaagaagaa aaaaaaaggg 60

ttcacatgcg atgctgccga gaccggagag cacagtacac gacgggcact gacggcgcat 120

cgggattgaa gcagtcctcc actaccactg ccactccaga tctgcccaaa acaccctgac 180

ggacggaggg tatcttttca acaagtgcaa ggcgcctcgt gctaattcca aggtgttttt 240

aggtcctcat gttggccatg accgatgcat cgcgcgggtc gcctgcgagt gcgctttgcg 300

ttgatccaat cacaagcagc ggggacaatc atgcatgccc ccggccccgt cgtcccttct 360

tttgaaaatc tggccaaatc ttgatcatgc ttttcgcaaa taatggtcgg tggaatctt 419

<210> 40887
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F7

<400> 40887

atcgatcatt gtacagtatt ttgtgcgtag ttgccttctg tcatcttcag ggagtagtgc 60

atcgagattt gaagccagag aattttctct tcacaacatg agatgaaagc gctcctatga 120

agttgattga ctttggtctg tcatatttta ttagaccaga tgaaaggctc aatgattttg 180

gtggaagtgc ttattatgtt gctccagagg ttctacacag atcatacagt atggaagcag 240

acattttgga gtataagagt tataacatac attctgttct gaggcattct ggccattttg 300

gcaaggacat aatttgggtt cttccgggtc gtattgaggt ctttttccaa ttttga 356

<210> 40888
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-G1

<400> 40888

cggacgcgtg ggatcgagat tctacgcgtg gataacctgg tcatcaccgg caagggaaac 60

cttgacgggc agggcccagc cgtgtggagc aagaactcct gcaccaagaa gtatgactgc 120

aagatccttc ccaactcgct ggtgatggac ttcgtgaaca acggggaggt gtccggggtc 180

acgctgctca actccaagtt cttccacatg aacatgtacc agtgcaagaa catgctgatc 240

aaggacgtga ccgtgacggc gcccggggac agccccaaca cggatggcat ccacatgggc 300

gactcatgcg ggatcaccat taccaacacc ggcattggcg ttggcgacga ctgcattttc 360

atcggccctg ggacct 376

<210> 40889
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-G2

<400> 40889

catcgatctc cccccagcgg cgaggagagc cggcggccac aggaaggaga aatggcttcc 60

gcacacaacg ctctccgggt gtttttcatc ctagccgtgg tatgtgccgt atgcacagcg 120

aaaaggacag gagccaacaa ggaagaatcg gcggcagccc ccggtggcgc tgctggaggc 180

agcggcggga cgttcgacat ctccaagctc ggcgcgacca gcgacggcaa gacggactgc 240

acaaaggcag gccaggacgc gtggacgtca gcgtgcgaag cgaccggaag cgccacggtg 300

gtgatcccca agggcgacta cctggtcggg cctctcaact tcacttggcc atgccagggg 360

agcaacaatc gcattcaact ggatgggaac ct 392

<210> 40890
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-G4

<400> 40890

cgtgggcgaa accatcctgt ttggcgacag tgaccccacc tccagcaagc ccaagttcgg 60

ctcgtactgg atcaaggacg gcaaggtctt gggcgccttc ctggagggcg ggtcaccgga 120

cgagaacaag gccattgcca aggtggcgaa aacccagccg ccggtcgcta acctcgagga 180

gctcaagaag gatggcctcc agttcgccag caagatctga gacgctcccg ttccatgtaa 240

atttccgtgt catcgtgaag gttcttctgg agctctggtc atgattgaga aatgttctgc 300

ttgctacaga tattatacta catacgtgac tacgtgatat attctgtttt cttgatggga 360

tatctgtacg tgggtacact taca 384

<210> 40891
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-G5

<400> 40891

ccacgcgtcc gcggacgcgt gggacgtggc caaccatcaa ttcaatatgg tggtggtctt 60

cttgcaggac ctgtgcattc tgttgggcct caagtacctc gcagcggctc tgattctgat 120

agatggcagc aaaagggtct catgccttcc cctgtcacac ccatgcaaac aatgcacaaa 180

gcagagagga agtatgttgt tgggaaagtt tctgatgagg aggaggcgaa acagaggcag 240

ttgaaaggca ttcttaacaa gctgactcca caaaactttg aaaaactgtt tgaacaagtt 300

aaggaagtca acattgacag tgtagcaact cttactgggg tcatttcaca aatatttgac 360

aaagctttga tggaaccaac tttttgggaa atgtatgct 399

<210> 40892
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-H2

<400> 40892

agcgtgcaaa gacacctgct atggagatct aaggctacag ttgtgggaaa agaaatacga 60

tggtagcaag ggagagatga tactcgacgc cacaagcaac atggcagcac tagaagttgg 120

cggaggcccc tggttcaatg ggtggaaagg gacaactgtt gtgaacgagg ttgtaaataa 180

cattgtgggc acgccagtcg atgtagagag cctcctccca atcccatttc ttaagccccc 240

aggcctatag gatcaccaac gaatgtcaca atgaagaagt atcacggata tcaatgttga 300

tcatacaaga aaactgtgcc caggtcaata ataattcatg atttttactt gttttttact 360

ac 362

<210> 40893
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-H3

<400> 40893

cttcagtgac ttcaagatga ttgacatcaa tggatatgca tgctttctga cgagaactgg 60

ctacaccggc gaagatggtt tggagatctc tgttccgtca gagaatgcag tggatcttgc 120

agaggccatc ctagagagat cggaaggcaa ggtgcggctg accggcttgg gcgcccgtga 180

cagtctccga ctggaggcag gcctgtgcct gtacggcaac gacatggagc agcacatcac 240

gccggtggaa gccggcctct catgggcgat cggcaagagg aggagggcag aaggcggttt 300

cctgggcgca gacgtgatcc tgaagcagct tcaagaaggg ccaaagatca agcgcggggg 360

catggtcacg caaggggccg ccgcgc 386

<210> 40894
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-H5

<400> 40894

cggacgcgtg ggctgggtgt atcttgcttg ttgcttgatg ccctgggaag catttgatcc 60

tttgcgaaag cgctggatga ggctaccgag aatgccatgc gacgagtgct tctcctgtgc 120

agacaaggaa tcacttgccg tcggaacaca gttgcttgtc ttaggtcgtg aatatactgg 180

ccttgctatt tggatgtaca acttactgac tcgcagttgg ttcccatgca cttcaatgaa 240

tctgccccgc ttccttttg tctcgggaag cttaagtgag attgctattg ttgctggtgg 300

atgtgataag aatggaccag tgctga 326

<210> 40895
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-H6

<400> 40895

cccacgcgtc cgttctaatt ctttgggccc gagaaatgca agccgtgggg gagccgttac 60

cgccgccagc ctctcctgcc cccgttttcg ttgccgtttc ttcattagcg cgaacaaagt 120

tttgtgccgg tctatcggcc gccgctttcc tcccctattc atcaagactg caataactgt 180

cgctacctat gcttctcacc tgtgattttt ggacacaata tgttaaggtc cattcaattc 240

taatgagacg cctgatgagg ctactagcaa acaacaccat gtgttcggat tgtcattggt 300

tattgatgtc ttgtgaatga ataatataaa tttttttt 338

<210> 40896
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-A1

<400> 40896

gcaaaaggaa cataaggata gaggagagaa ataaacaatg gggaagggag atgtggctac 60

caggtcaaaa tctcaaaaat caccagcaat acagaatgag cagagtacac ctgctaaccc 120

gcccacagca tatcctgatt ggtctcagtt ccaggcatac tataatgctg ctgggacagc 180

tccagtgacc ccacctttt ttcatccatc tgtagctcca agccatcagg ggcacccata 240

tatgtggggt ccacagatga tgtctcctta tgggacacca ccaccatatg cagcaatgta 300

tgcacaaggt tcaccatatt aacaggcacc aatgccaccg ggttcacacc catacaggcc 360

ttaacctatg cagttaccaa acgggacagt tcaaacttca acatttggtg cttgtgggac 420

agcgacagat taattaaatt aaaaataagc 450

<210> 40897
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-A2

<400> 40897

gccagatcct ccacagcggc cacgagtacg gcgagagcgt gttcaggagc tacgacgact 60

ggaacgccac cgccagggag gccgtcttct ggtggggcaa ggaggaggcc atctacgaca 120

aggacaagga gaagtgcaag tacggcaagg tcttcaagga gtgcggccac ttcgcgctca 180

tggtcggcaa gaggagcacc aaggtcggct gcgcacgagc cgagtgcttc aagggcggcg 240

tcttcatcac ctgcaactac tatgcaacgg acctggacaa gaacaagaac aaaacaccaa 300

acgataactg actctatcca cccatctgtt cgtttctatg tacgtacgta cgtagtagcg 360

ctgacttatt tactgagtga tgattggatt gttaattaac tactactgaa gcaattgcct 420

gattccgagg ttggagatga tga 443

<210> 40898
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-A4

<400> 40898

ggtagatgca tatgataagg agcgatttgc tgaatcaaag aaggagctcg atgctctcct 60

gtctgatgat tctttggcca atgttccatt tctcatcctt ggcaacaaga ttgatatccc 120

atatgctgcc tctgaagagg agctacggta tcacctaggc cttagcaact tcacaaccgg 180

gaagggcaag gtcaaccttg gcgactccaa tgtccgtcca cttgaggtct tcatgtgcag 240

tgttgttcgc aagatgggct acggtgatgg tttcaagtgg gtctcccagt acatcaagta 300

tggccctcgc cgaagcgcat gctcagcccg gcgaattttt ttgccttgtt cgttccggtt 360

gttccgtgac gagaacgaac gatggtcgct aggaaaagat catggagggt atgaagagga 420

aaaacagtgc ttaacattgt tgaacat 447

<210> 40899
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-A6

<400> 40899

ctacaagatg gcgtgcacaa acaatgcgat gagagccttg ttcctcctgg acctcttggg 60

gatcgagcat ggtgagaagg aagagtcaaa gggcatccat gcgaaagcgt tcgggcctgg 120

tgggtccttc tacatcacca agctgggcgc ctccggaaat ggcaagacag acagcaccaa 180

ggctgtgcag gaggcatggg catactcgtg cggcggtact ggtaagcaga caatcctcat 240

acccaagggc gacttccttg tcggacaact catctttaca ggcccttgca agggcgacgt 300

gaccatccag ctggattgca atctcgatgc gaccacggtt cttaactcag tcaatggacc 360

at 362

<210> 40900
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-031-Q1-K1-B2

<400> 40900

cacatgctgg tggtggccaa ccaaactatt tgccccaaat gcaaaaccca cagacgggct 60

acaaccctgg cggtgctcct cactaccagc aaggtgctgc tcctggctac caaggtggac 120

ctccggggta tcaaggtggt taccaaggga acccaggccc tgcctaccaa ggtggtaaca 180

ctggttatca aggtggcaac ccaccacctc cctaccaagg aagcaaccca ccacctcctt 240

accagggagg cagcccacca gggccaccac ctccctaccg aggaggcagc ccaccagggc 300

caccacctnc ctaccgagga ggcaacccca acgtaccgtc atattcgggt ggtggcaatc 360

ctggctaccc t 371

<210> 40901
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F3

<400> 40901

gggtgcttaa aaaaactatt tcatgtctaa gcatgaaaga gaaaaaaaaa cgaatgtgat 60

agttttagca taaaccataa gaagacatgt atcaatacca gtggatcatg tcttccacga 120

cacaaataat taaccaaaaa aagggaattt tcttgcaaag ggtaaaagaa ccctctattc 180

ccttcaagca agggtcgctt ctgcactctt cccaccctca ccaccattag cagaagatac 240

attgttggcc tctgcctcag caactgcatc catttcctct gcaatggcgt caacttctcc 300

aagcgggcga acctgcttct cctctggaag tggcttcaca aatccgtcaa caaaacaagt 360

gccccaataa atacct 376

<210> 40902
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D8

<400> 40902

aaaagagatt taacatgagg ttggcaccag aagaggagtc acacaagctt actgggtttg 60

tgcataacgc tgtcacttgc atcgggatgg aaacaaacat accggtcatc atagatgaag 120

ctatcaccaa attggatgag gatttcttct ggttgggtgg cggagaattt gacctcaagc 180

tcggaatgcg aacctcacaa ttcttaagtg tctttagtcc attcgtggtg aaatgcagct 240

gatgatagcc gtgcagccta aaagaagctt ctgattcatt tatttctacc gagcctccat 300

gcatccatca catggaggta caccacaata ctattgggtt ttgcttggat ctggtggtgg 360

gattgtattt ttttattgga caggctt 387

<210> 40903
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D9

<400> 40903

ggagctggac ggcattgagc ggtaccggga taaggagagg agggataggc ataggaggga 60

ggagaaggat cacaatggca ggggaagaag ggacagggag aaagagaagg acgaccggag 120

aagggacaag gatgatggca agcataggga tagagataga gatagggaga gagacaggga 180

taaggatagc aagtacagag accgggataa ggagccagaa cgtgaacgta accgtgaccg 240

tgaccgtgac cggggcaaag atcgggagcg ggaaccacat cggcagcgtg acaaggaccg 300

tatcataaat cgtgataagg aagcagatcg tgataaggaa agggaagcgg agggacaagg 360

ga 362

<210> 40904
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E1

<400> 40904

acgaaacaag cgcacaagaa caaatacctc gccgccaaca atggctccat gtcctccatc 60

ctgctcgcaa cggcgatgct ggttgtgatg tttgcggttg gtttgtgcac caccccgctc 120

accttccagg ttggcaaggg atccaagcct ggccacctga tcctcacccc caatgttgca 180

accatatcca atgtggagat caaagagcac ggtggcaatg acttctcctt tacgctcaag 240

gagggaccga ccggcacctg gacgctcgac accaaggcct tgctcaaata ccccctttgc 300

atctgctttg ctgtcaagtc tggtggctac tgcatcgccg acgatgtcat ccccgccgat 360

tttaagggcg ggaccacctt caaaaacaca c 391

<210> 40905
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E11

<400> 40905

cgttttgaag ccaccaggtg cttggcgaac tgcatcacgc gcagccgcct ccggtgggct 60

cccttccgcg gcgccggcgg gctcccatcc tcggcgcctg aagctatata tctgctcggc 120

gtccatggtc acaggattat atggttgtcc atgtcctcgc gccgaagcaa gtgatgattt 180

agattaaaga aatgtagaac ctgggacatg ctctcttcag tttgcacatg gtcacaagat 240

ttgcaacaca tatatagttt gcacattctg cctgctcaca tggactcaga agcaacaata 300

catcatcaac atcgtgtctg caggactgca cattagcatt catcccgttg gctgttagat 360

tggcttcagc aacgtgattt ttatactttc tctatatcct ggctttacag ttttttttaa 420

aaattccata ctctatattt tctttc 446

<210> 40906
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E3

<400> 40906

cgagaacccc gagaagagca tcgacaccat ccacatcgac ggctacgcct tcttcgccgg 60

cggcatgggc cccggcaaat ggacgccagc gtcccggagc acgtacaacc tcctggacac 120

ggtgagccgg cacacgatcc aggtgtaccc tatgtcgtgg acggcggtga tgatgacgtt 180

cgacaacgcg ggcatgtgga gcatccggtc caacatctgg gagaggcagt acctcggcga 240

gcagctgtac gtgagcgtca tctcgccgga gcggtcgctc atggacgaag acaacatgcc 300

ggagaccagc cttctctgcg gcaaggtcgt cggactgcca atgccggcgg gctacccttt 360

cgtctagagc atgcatcttg ggttgccctt tctttctttc atcacacggg cgcacggggg 420

ctggatacac aatttaaaag gaacgtg 447

<210> 40907
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E4

<400> 40907

atcaaggcct tcggcaagta caagtctgac tacgtgaagg accccatccc gagggacgtg 60

tgggagaaga tctacacctg gctcgccaag cccggggccg gggtcatgat catggacccc 120

tacggcgcca ggatcagctc catcccgcag gatgcgacgc cgtttccgca ccggcagggc 180

gtgctgttca acatccagta cgtcagctac tggttcggcg agggcgacgg ggcggcgccg 240

actcagtgga gcaaggacat gtacgcgttc atggagccgt acgttagcaa gaaccctaag 300

caggcgtacg ccaactacag ggacc 325

<210> 40908
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E5

<400> 40908

cgattctgtc tccctcaggt cgagattcga tagttcccgt gttcgaccat ccgcgctgtg 60

aggttctccg atggccgaga agtcacccag ctccgcgccg tagggtggtt ctggtgggaa 120

tgaatcattc gataatcttg taattcaagc tccacagctt atgagggagg attacataca 180

gaatgctgtg aagcttcttt cacatccgaa agtgaagggt tcttcagttt ttcacaggcg 240

tttctttctg gaaaagaaag gccttacaag ggaagaaatt gatgaggcct tttgttaaca 300

tcttg 305

<210> 40909
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E8

<400> 40909

ctcatctctg cgcgcgtgat ggacgcccgt ctccgcctcg gcttcttcct cctcctcgtg 60

gccgcggcgt tcgcgccgct ggtctccgcg cagctctctg cagatttcta caagacgtcg 120

tgccccgacg ccgagaacat catcttgggc gtcggcgaga agcggttcaa ggcggacccc 180

ggcaccgccg ccggcctcct ccgcctcgtc ttccacgact gcttcgcaaa cggctgcgac 240

gcgtccatct tgatcgaccc catgtcgaac caggcctccg agaaggaggc gggccccaac 300

atcttcgtca agggctacga cgtgatcgag gagatcaaga cggagctgga gaaggaatgc 360

cccaactggg ggtcgggcgc ggacatcatc ttggtgagcg 400

<210> 40910
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F1

<400> 40910

atccaaaaag agagagtgga aaagatggcg cggttgatca cagtggtgtg gtgcgcggtg 60

gcggtgctat tatgcgccgc ggccggtgcg tcgtgggtgg aggaggcggc gaacccgata 120

cgaatggtgt ctggcgtgga ggcggaggtg gttcgggtga tcggggagtg ccggcgtgcg 180

ttgaagtttg ctaggttcgt gagcaggttc gggaagagtt accaaagcga ggaagagatg 240

aaggagaggt acgagatatt ctcgcagaat ctcatgttca tccgctccca caacaagaag 300

cggttgccct atactctttt tgttaatcat tttgctgatt ggacttggga ggagttcaaa 360

aaacacaaga cttggaactg cccaaaattg gtctggcact 400

<210> 40911
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F12

<400> 40911

ggatctactg cgcatacaac atatcggtga tgtgattgat attttgcaaa caaccacaca 60

gcatctatat gacccggatg aactcctgac attcgcgttt gacaagatcg gttcaatgcc 120

aacaaataca atcacaaagg aaaggaaaaa gcaggagact gttgtcctgg ctgagctaga 180

tcaaagaaca agacggctga gatcactcaa gatggatgga tagggtggaa aatacaagtt 240

cttgaaagct gtagtcttgg cctattcggg acctgggacc acaacgtatg cttcaacgac 300

cg 302

<210> 40912
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D5

<400> 40912

cctcgaccat ccctgcaaat taccgcgatg gctcccaaga tcctagtcat ccttgtgttc 60

ctcgccgtgg cctcaccggc tgctctggcc gccttcgatg tgatagagat gctggccgac 120

aagcccacgt actccacgtt cctgaagctc ctgcaggaca ccaaggtcgc gggcgaggcg 180

aatcagctcc ggtcggcgac gctactggtc gtccccgaca aacttgccaa gcctctggcg 240

tcgctgcccg ccgataaggt gcggccggcg gtggagaacc acgtccttct cagttacttc 300

gaccccatca agctggacga gatgaagaca cgcaccgtca ttcttcccac gctgctcttc 360

gtcaccgaca agaaactcgg cgtcctcaac tacaccaagg gcgacgaccg gcaaatgtac 420

tttggggctt ccggggcccc ct 442

<210> 40913
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F2

<400> 40913

cttgtgtaac tgaaccagag gattgctagc gtcttggatc gaaggggatt atcgaagggg 60

attgaaggag attaccttct attcaatttt gattagggag ggatttaatt ctctcaaatc 120

ctcttcgatc gagacgtaat caagtaagcc ttaagatgtg taggctgtgg cttcttgtgt 180

aactgaacca gaggattgct agcgtctgaa tttttcgttg ttcggagtag taagtttaca 240

gtcaaaaaat ataaaatgta attgttataa ttttcttttt tgttta 286

<210> 40914
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B7

<400> 40914

ggactgatga gcagttggat gatctgtttt tcagtctttt aggacatgtt tggatgcagc 60

cctggcctgg accgcctgct ggcttatgca gctttcccgt gccgccatcc aaacatgccc 120

gcccttattt tgtcgtcgta ccaatatttc gatgtgattc tgcatccgca tctgccagag 180

tgctgttgca acgttgcatc ctatcctgga aggctggaat gtttatttgg tgctcggcat 240

ctctctgaac tttatgtttc cccggcgtac catgctagtg tttttcaatg gagccattat 300

tgcacttcgc tgtgctaata cgtgccttaa ttactgttac tcgttatttg ctattcggat 360

ggttcatgta acaaatgtgg attgagcaat ctgggggttt caatcaaaat ccaaccgtga 420

ccttcatcct gaaatgaaaa tagagatgtt tttttttcaa caaaacaa 468

<210> 40915
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B8

<400> 40915

cacagagatt atcccaggaa ccactccatt ttggaattct ctgcgtcagc gaagctcctg 60

ccactttgtt caccaggttc tgtatcgtcg gcagcaccct caggtagcag aacccgtaca 120

gccacagatg cagccgccgc cgctgctcct gagcccgaga agccccatga gcgagctgcg 180

gaggctgcac atgccgtcaa gcccgcgcaa ggtagcgtcg tcctcctcct cctcgtcgtc 240

gtcgtctgcc gtatcgtccc ctaagcacgt tggcgaggat cagaagcaaa gaccagctgc 300

gcctgagaac caagccacca tcgctgactc gatagtgtga tccatcagcc atggtggtgg 360

agagactgtg gcatt 375

<210> 40916
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C10

<400> 40916

ggcggaggag gtggtgagca ctttgctggt caggggcttc gtgctgagca aggacgcgct 60

gcggcgcgca cagtccttcg acggccggca ccagcagctg ctgtccacgg ccacggcgcg 120

ggtggcgtcg ctggaccgcc gcctgggcct cagcgacaag ttcagcctcg gcacggccgc 180

ggtccgcggc gcggtgcgcg gcgtcaacga gcgctttcag gtcacggagc gcgcctgggg 240

ggcctttcg gcggccggag aggtcgtggc cggcatcctc ta 282

<210> 40917
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C12

<400> 40917

cgctgctcaa ctccaagttc ttccacatga acatgtaccg gtgcaaggac atgctgatca 60

aggacgtgac cgtgacggcg cccggggaca gccccaacac ggatggcatc cacatgggcg 120

actcatccgg gatcaccatc accaacaccg tcattggcgt cggcgacgac tgcatctcca 180

tcggccccgg gacctccaag gtgaacatca ccggcgtgac ctgcggccct ggccacggca 240

tcagcatcgg aagcctaagg cggtacaagg acgagaagga cgtcacggac atcaacgtca 300

aggattgcac tcttaagaag acgatgttcg gcgtccgcat caaagcgta 349

<210> 40918
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C2

<400> 40918

aaattgtatg aggttcacag gagctttctt ggtgctgagc atatagtcat aatgttggag 60

attctatctg ccattgcatc acatgcaagt gaagtgaact ctgaatctaa cttgcacagg 120

aaactacata aagcatgctc tattttggag gtacctgagc cagcggttat ccatttcgag 180

agcgagtcct accagagcta cctcaaactt ctccaagctc ttcttcatga taacccatct 240

ttgtcagaaa ctatgaatgt ggagtcacaa attatgctcg tctgtgagaa aatactgcga 300

atgtatctga cctgcgcaga gcatgaactg tctaatggtg tttctggtag gggtccaact 360

ttacaacgga tgcctctggg tac 383

<210> 40919
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-030-Q1-K1-C3

<400> 40919

tggtcgatta cgatgagatc tctgagaaaa tggcgagaag tgcgagagct aggaggcatg 60

tggctcatcg gatcaagtcc acccatccca ttccttcata ccgatggaag gcaaaggcaa 120

tgaaaaaatc caaccgaaag caagtgttgc cagccttgca aaagatggac tgggaagatg 180

ccaattgctc tgtgtgcatg gaatacccac ataatgctgn gctcatcctc tgttcatccc 240

acgataaggg ctgccggtct tacatgtgtg gaactagcta ccgccactcg aattgcttgg 300

atcatgtcaa gaaagcatac accaaggggg cattgcttga ggaagttcct gcaaatagcg 360

ttggcactga tcttgattca gcgccattgt atgcagaaaa aattgaggcc attgac 416

<210> 40920

<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C4

<400> 40920

tctggggcta gagctactga ttctgcaaga attgctaaat tcacaacgga actatctagg 60

ccagctgtta tattagacaa attgcgtgaa ctatcttgga gtggtgtgcc tccatatatg 120

cgacctaatg tatggcggct tcttttggga tatgcaccgc ctaataaaga tagacgagaa 180

ggtgttctaa caaggaaaag gctggagtac gtggaatgtg tttctcaata ctatgatatt 240

ccagatagtg aacgctcaga tgaagaaatt accatgcttc gccagattgc agttgattgc 300

ccaagaaccg gacctgatgt tacatttttt tagaatcatc aagattcata aatttctttg 360

aacgcatttt tgtatacatg gggctatttg tcacccaaca aggtgggtta ccttc 415

<210> 40921
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C6

<400> 40921

cggacgcgtg ggcaaaaatg aacttgatga tgttattgaa gagcttgaga agatagcagt 60

tgttcatcta ctgcagaaca ggtcaataat atctttaatt ggaaatgtgc agaggtcgtc 120

tttgattctt gaaaaggctt tcaatgttct acgaagaaac ggtgtcaatg tccagatgat 180

atcgcaaggg gcgtccaagg tgaacatttt cttggtggtc catgacagtg aggcaaaaca 240

gtgtgttcaa gccctccact ccgcgttctt tgagaatggt ttcttgttgg aagctgatga 300

gttggatgtt cagcatgatg gctttacatc gcattccaat ggcacaatcc acaggcatta 360

accgaagatt tgatattcat 380

<210> 40922
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C9

<400> 40922

cctgtccatg agcagctgcg cggacgggct ggtggacgcg gtggacggct ccaccgccat 60

caccgtctcc aacggccact tgacgaggca cgaccacgtt atgctgttcg gggccagcga 120

cgccgcgtcc aaggacaggg agatgcaggt caccgtcgcc ttcaaccact tcggcaaggg 180

gctggtgcag cggatgccgt gctgccgtca cggcttcttc cacgtggtga acaacgacta 240

cacgcactgg ctcatgtacg cca 263

<210> 40923
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D1

<400> 40923

tctctctctt tcatttctat agccagcagg tagcaggcag gcaaccggcc ggtatattag 60

tagatcttcg atcgttcatc caagctaata agtcagtaag cagcagtagg tcgaaaatgg 120

cgatgaggtc gctagcgcta ctggtcctcc tcagcctgct ggttgttggt gtggcgcatg 180

cggtggagtt ggagatggag ttggtgcctg ctgatgcaat tgcgatgact atggatcatg 240

agccgccgac ctcctccgcg acgcgctgga caacctcaag gccaagatct acgggaaggc 300

catggaacag ctgaccgcgg cgatgggcgc c 331

<210> 40924
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D10

<400> 40924

gagagagtga accgatcttc tgttacaggc aatagactta aagaagcaca acacataaac 60

aaatctttgt ccgctcttgg agacgtcata ttttctctat cgcagaagaa tgctcatgta 120

ccctaccgga acagcaaact tacacaagtc ctacagagtt ctttgggtgc ttactattgc 180

tgattgttct atatactatt tacatgttat cagttatcta atatttttca tctgcaggcg 240

gccatgcaaa aaccttgatg tttgtgcaga tcaacccaga tgtctcatct tattcggaga 300

ctttaagtac tttgaagttt gctgaaaggg tttctggagt ggagctaggt gccaaggcga 360

ataaagaaag caaaaatatt agagaattta tggaacaggt gataaattat tgttttcctt 420

ttgcccgacc cttat 435

<210> 40925
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D11

<400> 40925

gttcttaggg aaatttggat ccataccatt aaaagatcac cactttggat ccataccatt 60

actatctcac ttacatgtgg gtccacatga gtcaatgaca tgtggggtcc atggtatata 120

tctaaagttt ggatctttta atggtataca tccaattgtt cctagttctt aactgtgttg 180

cttattccat caggacagca cgtcccaaat gattttgtgt taactagcaa acagtttgag 240

ataagttatg ttttgcaaga ttgacatatt ggtatatagt ccgtattttt cttgtcttct 300

cgttcttgct cacatgtgtt acatttgaaa ttcggtataa accttattaa tatggactgt 360

tattggcttg tgcctcattt acatcttgc 389

<210> 40926
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D12

<400> 40926

ggaagatctt tacaatggaa tctcaaagaa gctctctctt tcgcgcaatg tcatctgctc 60

caagtgcaag ggcaagggct cgaagtctgg tgcttcaatg aggtgccctg ggtgccaggg 120

ctcaggtatg aaagtcacca ttcgtcagct ggggccttcc atgatacagc agatgcagca 180

gccttgcaac gagtgcaagg ggactgggga gagcatcaac gagaaggacc gctgcccatg 240

gtgtaagggt gagaaggtcg ttcaggagaa gaaggttctt gaggttcatg ttgagaaggg 300

aatgcaacac agccagaaga tcacctttcc tggtgaagct gatgaagcgc ctgatatcgt 360

tactggagac att 373

<210> 40927
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D2

<400> 40927

ctcctcttct ccctcctcgc ctactacctg cactaagcgg agcgcggcgg gcgcggcggc 60

gagggcgggc gcggcgccgc gctcctcttc tccctcctcg cctactacct gcactaagcg 120

gacggacgga cggacgcgcg catggcattg gcatgcatgg actggtgaac atctatgcat 180

gcatggacga cgtcacttgc aacgctgttc ccatatagta ctactggtct gctatgaata 240

tctatgcatg catggtaacg gggtgcggta tttaattatt attattacgt agacattact 300

atgtaaaaat catgtgttcg cggaaagtcg ttctggaatc ttgggatgga a 351

<210> 40928
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D4

<400> 40928

ccacgcgtcc gcggacgcgt gggaaaggat gaatttgtga gctacgcaag cacagaagct 60

aggcgtttat ctgaagcagc atttggtgag gctatgcttc acactattgg gtatatttac 120

gtgcggcaag cagcaagaga acttgggaaa agtagaattt atatgggtgt accggttata 180

gctgagtggg ttagagacaa aggacaccac attaaatcgc aagttaatgc tgcttcaagg 240

gctatttttc taatacaact ttaagaaagg atgaaaaaga tggaa 285

<210> 40929
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B6

<400> 40929

agcagatcca gaaatcatta aattacagct tgaatttctt tgatatgaaa aaattcacct 60

cgaatacaaa tgtccacagg atacaggaag ctccttacaa tactactaac ctcatttctg 120

tacatgatcc ccagacctca gttttttttt ccatcacaac tgttctggga gataggtgca 180

tccacatcct ggactggctg gatccatcct ccaggaaatc ctgctatgtg ttgaagaccg 240

aatttttgt aaactactac tactactacc gtttggcact gcagaccctt ttgttatttg 300

tggtcacgga tgaaagttga gatccctgga gcaaggtctc atgtggagaa ccccccttatt 360

catcacgtat tctgggaact catgcatggc aaaacgccat gctgattgtt ggacatgaac 420

ataatggtta cg 432

<210> 40930
<211> 317
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-029-Q1-K1-H5

<400> 40930

atgagaggca ggcgtgtttg ccgatatgaa ctgtgttgtt gaggtatgac agatttatgg 60

ggatagaaga agaggctcct gtttgccgtg tgagcagcag atttgatgta ttatttgttg 120

gctaataaac agctattgta cactgtagag gcaaaagaaa caaattaacg tggtttccat 180

tttctttata tgttttgggg atacctgagg agcggtttat atcatacatt tttattgaca 240

taattcaata gggantgtta tgtgcgatac ttgtcaaaaa aaaataagaa atcatggaga 300

aacaacggct gtgataa 317

<210> 40931
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A1

<400> 40931

aaataattgg gaataaatag ttcgtgaatc cctgaagcgt gcatatatat attcctgcca 60

agataaaggt aatggagtcg ggacgcaagt tccagccggc cgtcatcctg cttctcctgc 120

tcattgtgtc caccgatatg gcacaggcaa gggaatgcga gaagtacagg gagcgatttg 180

ttggggcatg catgatcgca gacaactgcg ccaatgtgtg cctgggtgag ggcttcttgg 240

ccggcaggtg cagcaccttt cggcgccgct tgatgtgcac tatgcagggc taaacaagat 300

cgctccatcg ctcgccatgc atcgacaacc tattcttaat aaagggcatt atttcggtct 360

tattt 365

<210> 40932
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A10

<400> 40932

tttccaagct cctcctcgcg attccaatcc acgcacgcct cctccgcttc cgcctcgctc 60

aggagattcg gatttgatta tattaccctg attcgtttaa aaggatgggt tgagctctta 120

tagtcagtga tggaacacaa ggaggcgggc tgccagcagc cggagggccc aatcctatgc 180

atcaataact gcggcttctt cggcagtgct gcgacgatga acatgtgctc caagtgccac 240

aaggagatga taacgaagca tgagcaggcc cagctggctg cctcctccat cgatagcatt 300

ggcaatggcg gtgacggcgg gaaaggacct tgaattgctg catctgtaaa tgtg 354

<210> 40933
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A12

<400> 40933

cccacgcgtc cgcccacgcg tccgtccacg cgtccgggag gttgatgttg aagtgccaac 60

tgatgaggat gagacaagtg aagaagagga ttcaactcca gaaactacag aggaagagac 120

agaagaagac gaagacgaag agaaagagaa aaagcccaag accaagacaa taaaggagac 180

tacttctgag tgggaacttc tgaatgatgt gaaggctgta tggcttcgca gcccaaagga 240

ggttactgat gaagaatact cgaagtttta ccactcacta gccaaggact tcggtgatga 300

caagcctatg ggttggagcc acttcactgc cgaaggagat gttgagttca aagctttgct 360

ctttatttcc ccgaaagctc cacatg 386

<210> 40934
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A5

<400> 40934

cccacgcgtc cgcggcaaga tcggcatcct gctggacttc gtgtggtacg agccgctgac 60

caagtccgtg gaggacgagt acgcggcgca ccgggctcgg atgttcaccc ttggctggtt 120

cctgcacccc atcacctacg ggcactaccc ggagacgatg cagaagatcg tcatggggag 180

gctgcccaac ttcaccttcg agcagtctgc catggtcaaa ggctcagcgg actacgtcgc 240

catcaaccac tacaccacgt actacgccag caacttcgtc aacgccacag agaccaacta 300

ccgcaacgat tggaatgcaa agatttcgta tgagcgagat ggtgtgccca ttggcaaaag 360

ggcgtactcg gactggcttt acgtccgtcc atgggggctc tacaaggctc tgatttggac 420

<210> 40935
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A6

<400> 40935

gtcgccttca gcaacgccga ccacaaggac agtagcacca aggtggaaca gccggcggac 60

agctccttga agccggcgag cctgaacgcg ttcgacatca tcttccactc cagagggttc 120

gacctgtcaa gcctgttcga ggtggaccaa gagcagaagg ccagcaactc gcggttcatg 180

acccagaaac cggcgtcggc gatagtgtca aagctggagc agatcgctga gacagagcgc 240

ttcatggtga agaaacagga cgggctggtg aagctgcatg ggttcaagca agggaggaag 300

gggcagcttg cgatcgactg ccgagatctt cgatgtgaca ccgtgctttc acgtcgttg 359

<210> 40936
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A8

<400> 40936

gttccatgga gccgatacag ctctgctgct ctctggatca agcatgtgtg gcgatgtttg 60

cgtgaacatc gcaccggtgg aagactacga actgccaccg gaagcgtact cccatgcagg 120

agcaaggtct ccgggtccgg gaacgccgac gggggaggcc gtgaagaatg cggaggatgt 180

ggtgagcacc atgctggcca ggggcttcgt gctgagcaag gacgcgctgc ggcgcgcaca 240

gtccttcgac ggtcggcacc agcagctgct gtccacggtc acggcgcggg tggcgtcgct 300

tggaccgccg cctgggcctc agcgacaagt tcatgctcgg tacggccgcg gcccgcggcg 360

cgacgcgcgg cgtc 374

<210> 40937
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A9

<400> 40937

ccctccctca ctcagccaaa cctgacatca gcctattaca agcgtcagta gagatctttc 60

agatggccat ggccaagccc ccgcttcaga cggccgcgat catcttcctc gtgctcctcg 120

cgaccgcgtc gtgcctccac accgtcgacg ccgccgcttt agggttttgc tggggcaagt 180

gcagcgctcg gtgcgcgcgg gcaagcgcgc ggcgggcgtg gaccgcgtgc atgagctcat 240

gcggcctctg ctgcgaggag tgcaactgcg tgccgcgcga cattcatgac tgcccctgct 300

acagcaacat gttcaccacc ggccccaaga agatgcccaa gtgcccctta gactgagact 360

gtgaggtcgg ctcacactgc ggcatccatg 390

<210> 40938
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B1

<400> 40938

ggccactgag gtaaatacaa gtgatagccg tgttgaagtg gactccaaga tctagaaggg 60

tgttgggggg gagcacaaca caaattctat caaagagctt atcagcaaca cgcctctaaa 120

ttataatgac aatcgtttct ttgggaaatt cagatagtaa acaaaaagtg gctatttctt 180

cagaaacgca aggttgcttt acaattgtat tatgagaaaa tatttgatga tgagaaatgg 240

aggatctggc gaacgacttc atgagtatag ttgcagatag aaaagacaac actgacgatc 300

aaatggaacc atcaattttg gcacttgatc gcaacaacac atgtgagctt tttttgctga 360

taatctgatg gcaaaagcaa aatcatgaaa atatgatggc ataatggtta tttctgaagt 420

tatt 424

<210> 40939
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B12

<400> 40939

cggagatgga gagagcggcc cccgtgagga gctcccacac ctcgacggct ggcctgctcg 60

cgtggcctca ccccgatggc gccgggtcgc tgccagcacg ccggcctaac cagccgacgg 120

aggaattcag gaatgtggtg tttgggggggc agctcacgga gggggccgac ggcctcaaca 180

agacgaagag gaagacgggc tcctcgccca aggggaagga gacaacaggg accgggatat 240

ccaaggccga gagcgccgcc gccgccgtcg caactgcctc ccgtgatcgt caggctagcc 300

acatcacctt ttcccaggac gggaccgttc ctaccaggaa ggcaactttc agggctgggg 360

tggcaaggca acgtgagctt aaccataccg tcgagagtga gggggac 407

<210> 40940
<211> 300
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-030-Q1-K1-B2

<400> 40940

ccacgcgtcc gcagcgaacc aagagagcag ggtgtgggcg aagagacccc agccagtcga 60

tcgttcaaga aaaataccag cttaccaaca acagcagcag caagcccacc cgttcgacga 120

catggcccgc ctcggcgccg gcgccgtgtt ggcgctccta gtggcggtcg cggcggnggc 180

cgcgttcctt gcggtgccgg cctcggcgaa gtccggggag ctgagcgcga tggggttgct 240

ggcggcgaag ggcggcagcg gcgcgggccc tcataattgc tctggctctg tgggcgattg 300

<210> 40941
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B4

<400> 40941

aaaaaaaaaa aaaaaaaaaa aaaaaaaaat attaaaaaaa ataaaaaaaa aaaaaaaaaa 60

aaaaaaaaag ggaaaataaa aaaaaaaggc gaaagctttc ttatgctata atataaaata 120

atatattttt aaaaatgggg tgttgaattt aaataaatca taatatttat tacaattgtc 180

cgtacataaa aaacctttgg ttttacgaaa cttattatta attccaatta tattcccatt 240

ttaaaa 246

<210> 40942
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B5

<400> 40942

cgcgtccgga agagaagatc gacaagagat tggcggtaat ggactcctcg gagctgcaca 60

tactggcctt gcagagggtg aagcaggtgg agccggagaa cgcgagcaag atcctcggct 120

gcatcctcct ggaggaaccc gacaaccagg atatgctgca gctcgcctac ggcaacgacg 180

ccgaggtgca cgccaagatc agccacgcca aggccatgct ggacgccatc gtcgcgtgct 240

gctcctcgcc ggccttcggc taccactact ggccgccggt gcccaataag gcgcaagcag 300

aagagtacgc gttgcagccg cagcactaca agggcggagg gtgctactac gcctctgaga 360

acgcgctcat ctacaatggc gggggg 386

<210> 40943
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-H4

<400> 40943

gacagggcaa gcgatggtgg tctgcatcta ctacgagccc attacccccg gccagtgcta 60

catggtggtc tagaggctcg gcgactactt cgtagagcaa ggcctgtgaa tggattcatg 120

tatccttgct cgcttgtcca tggttcgcag caacgatacc aacacccgca ttatttaatt 180

ggtagcctcc tctagctacg cacgcatttt tagtctccta cacgcccttg gattgtgcgt 240

ggctctgtta atcatctctc atccttcgtc tgccatttct cccctgagat ttttgttcct 300

tgttggtacc atgcattttg gcaaataaa 329

<210> 40944
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E6

<400> 40944

agacgctccg cgccgagctg ccgttcttga ttgttcccgc catccggata cgcaccgtct 60

gcagcatctt cctgaagcgc gctggcgctg ccgggctctg cctcgccgac atcggtgaca 120

tgatgacccg cgagttcacg gctcagcagg atgggctgag cacactcgag gcgctatgca 180

agcaagcgca cgactccgtc ctcccacacc cctcgtccga cggcgacggc gacggcgtcg 240

acgagagtac aagcgtctcc ggcgggcgga aacacgtgtc gttcggcgac ctgagcctcg 300

cggagtggac gtcgttcctg gagaggt 327

<210> 40945
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E7

<400> 40945

ggctgttgag gctatccctg tggatcagat cgacccagca ttggttcaga tcggtctcgc 60

tgaattcact gtcaagcttg tgcggcctct actgacctgg agaaggctga tgcatagatc 120

ggagtcgatg ttcacagtgc cctcaatgct gcattgaccg gttaattggt ggcatttaa 180

attgtcttgt atttttcatc tacatgttta gagtgagtgt aagtttgcaa actcatggtc 240

atgggatgga gggaatgaac ctaaataaat tatactccat ctaaaacatg gacatatgtt 300

tcttgtttcc tg 312

<210> 40946
<211> 328
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-029-Q1-K1-F1

<400> 40946

ctgtcactga aggacaggga gcggctgcta tggtttcgtg gngctatggc ggccggagcc 60

catcctctgc tatccgtggc gaccggcaaa tgctatccgc ggtgctatgg cggacagact 120

gagctcctat ccgcggttgc cgagaaatat gggtgatagt gccgattgga atgaagataa 180

cactgctcta gtgtgtgaat tgttctccga acaagtgaag tcgcacaacc gttctggtac 240

ccacttagat aaaacaggag acaaaaatgg gatggacaaa ttcaaagaaa agactgggtt 300

gtcctacacc aaaatgcagt tcaagaac 328

<210> 40947
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-F2

<400> 40947

tgcatccgca ttccacccgg aaccgtggtc tgagcgctga tgtggctcag atgtcaccta 60

cccggaacaa gtgcgtccta accggcattt gagcgcgttc ttgtccaccc taacctggtg 120

ccttttacgg tcgcattcgc accgcgatga actacgccgc agccgccact aacgcccccg 180

cggcggcgcc cgcggcagcg ccggcgtcgg gcacagaaca cgcgcactac ccgtattacg 240

ctggctattc ttatccctac ggcgcctatc accaacctgc cccgcccacg tactcctccg 300

ccgtggccgc cgcctcgtca tcctactact ac 332

<210> 40948
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-F4

<400> 40948

acgccaccgg aatcaccatt cggttcacca ataacacctt cgtgaacgcc accaacgagt 60

acatggtcat gatcctgatc accatatgat tgttttaaaa gcagcagcag tctagtgaaa 120

gtaatgtttc gttttaagat tctagctgat agacgtccta tcatagctag tcaaattaga 180

tttg 184

<210> 40949
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-F7

<400> 40949

ctgctgataa ggaggatgtt ctacaggctg tttgctcccg cgttagtgca ctataggagg 60

agcttgcagc tacaaagaag atcttgcagg agactcttga gcgtcagtct gtgatcgttg 120

catacattga gaagaagaag aaaagcaagc gtttctttcg ttggtagaag caaacagcag 180

tgaattgttc acgcccacga gaaaaaagtt tatgcgtgtg atggaagcga gctgttgctt 240

gcgtatgcca gcaagctgcg attctgagtg taacacataa ggatgttctt tcattcttct 300

ttgatgttc 309

<210> 40950
<211> 105
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-G1

<400> 40950

gaaataatgt gcttgcgtga ttgttagtct atctctttat ttgtttaata atgttataaa 60

tgctacggtg atgttttaac atgataattg tgatgttgtt aaaaa 105

<210> 40951
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-G10

<400> 40951

ccaagacgca cacgggacgg ttcgttcacc aaacctacct tggtgggccc cacttttccc 60

ccgaaccgta gcttcagagt gatccccttt tcaccctcta tataat 106

<210> 40952
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-H1

<400> 40952

gagtacatgg ccaagtttgg acccctagac tattgtgtcg tcatgaagga gcggtcttgt 60

gggcgatctc gcgggtttgg ctatgtatca ttcgcctcag ctgacgatgc aaagaatgtt 120

ctggattgcg agcatgttct tgggagccgt acattagaag tgaaggtagc tactccaaag 180

gaagaaatga aatcacaagg atcaaagaaa gctacaagga ttttcgttgc tcgaattccg 240

caatcggtgg atgagtcgat gttgcgtgga catgttgaag cttttgggga aattcttgat 300

ctttacatgc caaagagtct gtggaca 327

<210> 40953
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E4

<400> 40953

cctgcagtca tctcctgtac tatcttcacc atgttcaaca gctgccagct cgcgaaaatg 60

atggagagcc gcagcatggc atcatcggct gtgctcttgg tgctagccct tgcgcgagtg 120

gcggtcaccg acccacaggt agcggaggca aagaagaaga gagcggcgga gagcggcgag 180

gcggcggagg cgaagaagat ccaggacgac ttctgatcga cgcgtttcga gggcaagaag 240

gggacggacc tggtcgtgtg cgaggagttg ctcgctcttt tccagcagtc caacctggtg 300

ctgtacggca ggatccagtg caagggc 327

<210> 40954
<211> 188
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-029-Q1-K1-H2

<400> 40954

gtnttgtcnc catatttttt attttttttt ttttttttt ttttttttt ccttttttt 60

tttttgtttt ttttttttt cttttttttt ttttttttt gttatttttt tttgtttttt 120

ttttttttt ttttatttt ttttttttt ttttttttt cttttttttt tgttttaata 180

tttttttt 188

<210> 40955
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-C12

<400> 40955

cgctgtacgc gcagaagtcc gtcggagacg gggtcaagga gcccctggac aagaagctgt 60

cggaggcgga gaagaagaag gtcacgttcg tggtggaccc cagcggcaag ggcgactaca 120

ccaacatcac cgcggcgctg gaggatatcc cggtgagcaa caccaagcgc gtgatcctgg 180

accttaagcc cggcgctcag ttccgggaga agctgttcct gaacatcagc aagccgttca 240

tcacgtttcg gtcggacccc aagaagcccg tcgtcgtggt ctggaacgac acggcggcca 300

ctaacggcaa ggacggcaag ccggtgggca cggtggggag cgccacgctg gcggtggagt 360

cggactactt tacggcgtac ggcgtcgtat tccggaacga cgcgcc 406

<210> 40956
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D1

<400> 40956

gcggaagtcc ggtcggaaaa actgccatga tatatgctga actgggactt atcagaaccg 60

cggacaacat gatgtattcc cacgggctga tgtttcttcc agtcttgacc ttttcgctca 120

tctgtgctag gcaagtgagc ttcaacgtct ttttctcata cgtcttgaac tctcagaagc 180

tcaccggttt gatcatgaac tccgtggtgc tgctcacctt ggctgctgta ctccttgtag 240

ccaaccatga aactcatgga cctattactg gtggtgtcta aagacgaaag taccttctgg 300

gtttcctgtt gacagtagga gcatcaggca cctactcact cat 343

<210> 40957
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D12

<400> 40957

acactgctct ctctcagcca tgctatttac ctccactacg gggagcatga tcaggcacaa 60

aagcttacat caataccacc tcgtagtgaa acacactcta atcaacattg atgacgatac 120

atgttctact 130

<210> 40958
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D2

<400> 40958

gttttcaaca agggaaagat ccactatgat ccttatactg acatggaagc tcttaagttt 60

atcctgatgg gattgtttga gaagcggata gctgggaaat tcttccttta tgtccaagag 120

tataagtgaa atgacccaag tactcataag ggttacaacc ttactaaact aacgacaaaa 180

gaacttatct caaaatatgg tttggatgat aatactatag actgttttgg gcatgcactg 240

gctcttcata gagatgatag ctacttgaca gaacctgcaa ttgacactgt aaaacggatg 300

aaactttatg cataaatcag gggctcgctt t 331

<210> 40959
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D5

<400> 40959

gtctttaggg agttatggag ctgatcttgc ttggtgctcc gagtacagtt gggattatgg 60

ggaagctggt acgaaagagt atctgaaaga tttccatcgg cggaggctct aggtttttgc 120

ggaagcaggc cccgatttga ttgctttcga aacgattccc aacaaactgg aagctgaggc 180

gtatgtcgaa cttctcgagg agtgcaacat caatatgcct gcatggtttt ccttcaactc 240

aaaagatgga gtgcgtattg tgagcgatga ctcgttaatc gaatgcacta ctattgctga 300

caagtgtgca aaggttggtg c 321

<210> 40960
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D6

<400> 40960

cggacgcgtg gggttacggg cgcactccac agtgtacatg gaggactgca tggagaggtg 60

caaggagatc gctgataagc actggcgcta gggaccctta caaggataac taacgtgaca 120

tggcatgaac taattaatgc tcctatatca tctgcctatc catgcatgca ttgcattgcg 180

tatgcacact gtgcgtgcct gtccacaaag gtggacaaca caccgatctc gacggattag 240

taatcgagtg cactcgatcg ttatatcgat ggatgcttgc tattatatct gtattccaca 300

ttatatataa gaaatacaaa ttaaa 325

<210> 40961
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D7

<400> 40961

cgaagctgaa gctgtccatg gcacggttac ttcgcatttc cgtgtccacc agataggagg 60

cttaaccagc acgaacagca ttggttcgat ctttgcatgg acaagaggac ttgcctacag 120

ggcaaagctc gacgacaacg ctagactact tgacttcgct ctcaaactcg aggctgcttg 180

cgttgagacc gtggagtccg ggaagatgac taaagatctg gcgattcttg tccatggatc 240

ttccagcgtc acgagatagc cattacctga acacctagga ggtcatcgac gcattcgcta 300

ctgagctccg atcaagactg ggag 324

<210> 40962
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D8

<400> 40962

cgaattctag ggttaggttg ctgttcatgc ttgttcttgt tgtttgtttg taggcgatgg 60

ttacagctgt ggcatctact ttagtacttt cgaaagatga agctcatttt gcctgtatgt 120

cttaaatata gtgctctgta ttaagcttat ctgcatcttt ttttttttg catatgacat 180

ctggtagtat taccgtcgag cctatgattt gttattgtta tggaataaca aactgaaatc 240

tcccgtcaga tgacattata ttgcttgtgt ccttgttcga cttactcttg catcgtgcat 300

aacagtattt ttttttcttt t 321

<210> 40963
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E1

<400> 40963

cgcgttccac gtcgactgca tcgacacgtg gctgctgtcg cactccacct gcccgctctg 60

ccgccgcagc ctcctcgccg acttccccac ctgcggcggc gcctgcagcc cgctggtggt 120

cgtcctcgag tccggctccg agggctcggt ctccgatcgc cacgacgcgg cgtcctccgc 180

gcgcctcagc tttggcatgg agcaggagca ggcatggcag gatcggaaac acgtcgccgc 240

tgcagaggca gcggagaaga atgacgaggt ggtcgttccg gtgaagctcg gcaaggttcg 300

aaagccaggc cacccgaagg agccgg 326

<210> 40964
<211> 214
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E11

<400> 40964

agatcgatct aggcggaggc acactattcg tcggtaggag ccaacaacgt tttacgaaca 60

cattcgactt ggacatcctc tgatgactct agacaaccga catgactacc acgcgaccga 120

tgcatctatg atgaattaat ccaatgtatt tacataatgg tcgatttact aaactaggat 180

ttgaaagctt gcgcgtacta tactattgct atac 214

<210> 40965
<211> 328
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-029-Q1-K1-E2

<400> 40965

cctcgtctca ccctccctcc cttacacaaa taataaggta aggtcccgcc cttttccttc 60

gacatgcaca agggggggagg ggaaaacact gtacattcac ccggcggcaa taatggtctt 120

ngtaccggct ccggcgacga cgaccgccgc cgtcatccta tgcctatgcg tcgtcctctc 180

ctgtgccgcg gctgacgacc cgaacctccc cgactacgtc atccatggcc gcgtgtactg 240

cgacacctgc cgcgccgggt tcgtgaccaa cgtcaccgag tacatcgcgg gcgccaaagt 300

gaggctggag tgcaagcact tcggcacc 328

<210> 40966
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A12

<400> 40966

acattggcgc cttttagatg acggttggcg tcagagccat gaacgcgccg atactggaga 60

tcgtcatgag cttcgacctc gtgtacacgg aaaacgcgac agaacgtgac cccaagaagg 120

gcgactctgg catcataaag cccatcgcca tcggcttcat cgtcaacgcc aacatgctgt 180

ctcagagcgc cttcaaacgg gcctccatga accccggcgt ctccttcggc ccggacagag 240

tcaccgg 247

<210> 40967
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A2

<400> 40967

ggaccatggt ggtgtgcgcg acggtgcggc ccttgtgttg gtggagtggt tcgaggttca 60

ttgcgatagc tggaagattg ctcccggtgg aacaaggaaa cgtgtgaccg aggttgtagc 120

aatggaggac ttctgccgta ataagggaag tgattgggac tgaaatttct ggagataaga 180

tgctcttctg agaagcctgg ttatgtgagt aaaattgttt gtattccggt accatgataa 240

ttaaacg 247

<210> 40968
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A3

<400> 40968

gcaagcggtt cagggacttc attggtaagg ctttcgacga cgatgtacag tgactagctc 60

ataggacaga acagggagcc agcgaactaa ggcaattaac acttcttaat ttgggtgggg 120

ttagtttgtt cccacacaac aacagtggtt cttttaagta aaatcgtcgg agcaatctgc 180

agtagatcaa aacacttgca tagtgcagca aaaggaggct tagatggttt cttgtagcat 240

ttgtgaattt taagcatttg gtgcgtaagt taaagctgaa taacacttca cttttaaaaa 300

aaaaaaagac a 311

<210> 40969
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A4

<400> 40969

ctgacacatg ggctcaccgg accctaaacc tgagccacct gcctagcccg gaggtccgtt 60

gatgcgtgtg cgactctagg cgtagcctga gcccactaca agggctagcg gtggatggag 120

ctgtgaaccg attacccata cgatcccctt accggtggag ggagaaacta gcctacgagg 180

ccaataaagc cagaatgggg cacgatgagg atcatgatca agggatgcgt gtggaagaac 240

acctacgact agaaactt 258

<210> 40970
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A5

<400> 40970

cccacgcgtc cgcaacgagg tgagctcgag ggagatggag agggtgaacg tgctccgagg 60

catcctagac aacaacgtgt tcggcatggt gctcggcagc accgtggtgt ttcagatcgt 120

gatcgtccag tgcctgggca gcttcgccaa cacgacccct ctcagcgtcg cgcagtgggg 180

cgcctgcgtc gccatcgggt tcgtcatcat gcccgtctgc gtggcggtga agatggtgcc 240

ggtggagtat gcgggcctct cgatctctct cggagttgag aaactggagg caggcaagcg 300

gtcagtagtt gttggcttga aatg 324

<210> 40971
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A6

<400> 40971

gcaagggcaa aattgtcggc gaatccggct gaaggacgct gcggcaccta tgataggcga 60

cactggccgc actataccga agttgggcga atgggacgtg aacaacctgg tgtatgtcga 120

cgggttcacg gtgatcttca gcaaggccag ggatgagaag aaagccccgg cccaaggcca 180

catcagggac aggtcggcgt ctgtcgtcag caagggctgc aggtccaggg atgagaagat 240

gacctgctac a 251

<210> 40972
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B1

<400> 40972

agcgtcaact tcccagctga gttctcagaa tttactgagt catagacacc acttagattc 60

cagttcacca agcaatatta cttcggagtc ctatccagga aagttcggtc catctagctg 120

ttcttctgca caaagaaact caaaagtgca gaagaaaact gtcaacatac aaccaagaca 180

gccagcaaat gataatgtta tgaacacaag cagagcttct tacccttgtg agaactatga 240

aactgaaaga agaggattag ggaaaagaac tctgggggat cctcaagtta caatgggtag 300

ttcaatggta gtggatggct catttgtatc atctatgtcc tctgataact cagtcgaaga 360

aagcagcttt caacaactgc aggatgctgt 390

<210> 40973
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B10

<400> 40973

gcatgaatac ccgcatctgt ttccagtcat gaacttcctg caaactctca gggagagctg 60

ctggagggtc tttagacaca tctacttttc tgtatcacgg tctgatttga tgtccgcgag 120

tgaagagcat cgctcgctcc tagactagat caacgtcacg atcaacgaga acatccatga 180

gtataagcac tcgtcgtcgt gctcctcctc ttacgactca aacgatgaca aaaagcccaa 240

taactctaag aagaagaagc ttcttggaag aaaacattca ttgcatcatg ttctcggagg 300

aggc 304

<210> 40974
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B11

<400> 40974

ccgatgcgca cgtacgggtc gacccaagct tgcgctggac acagagtggc tcatgtatac 60

gggcgtcagg actacctaca tcctaggggt ctacttcatc tgactccatt gaactctaca 120

gcctatatat gcacacactg gctcacgcgt ggacccgtcg acaaccttct tgcacttggc 180

cgtcacaaac caatgtctcc atcgtaagaa cagaacacct tcagctgatg accatcgcat 240

gcacatccca ttgacttggc gcgagcattt tgataatggc atacacc 287

<210> 40975
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B2

<400> 40975

cttcttcctt ttcttttctt ttttttttt ttttttttt gttttttttt ttttttttct 60

gttcttttgt ttttttctct ctttagtttt ttttttttt ccttttcttt ttttttttc 120

ttttttttt ttttttcct ttttttctt ttttttttt gttttctttt ttcttctttt 180

ttttttttc ttttttgtt ttttcctttt ttttttttt tgttttttt cttttttttt 240

ttttttttct tatttttttt ttctttttc ttttttttt ttttt 285

<210> 40976
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B3

<400> 40976

gtgaagttcc ggaatgcagt agcgaaggac tactacttgc agatgtacta tgatgatctc 60

ccactgtggg gcttcattgg taaagtttag aagggaggca aggccgatcc gagcgagtgg 120

aagtactacc tgtacaggca catcatcttc gatatcctgt acaacaacga ccgggtgatt 180

gaaatcaatg tgcacactga tcagagtgct ttggttgacc ttacggagga taaggagaca 240

aatgtggatt tcctgtactc agtcaagtgg aaggagacac caacaccatt tgagaagagg 300

atggagaagt actccagctc cttcaacatg ccgtaccacc tggaggttta ttggttctca 360

attataaact cttgtgttac t 381

<210> 40977
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B4

<400> 40977

agatgatgtg ccaagtgatc ctgctgctgg atctgatgtg actatgcagg agcagcctcc 60

tgcagctgga aatggagcac aagataatga ggaaaagtct gtttcgatgg aaactgatgc 120

ataggttgag ccgtcaaaaa agaaagttaa gaaaactact gttccggtcc atgagttggt 180

ctatggggcc ttggctgcag ctgacctgca gaaggctgta tagaaagagt atgagatggc 240

tcttcaagac agagtaatgg aagaaacaaa ggagaagaag aatgctgttg aagcttatgt 300

gtatgacatg cgt 313

<210> 40978
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B6

<400> 40978

gtcgtttcca aattcttcag atacatacaa gtgttatgaa agagaattct ttcctatctc 60

cagatattaa tcttcttgag ctagccgcaa ggacaaagaa ctacagtgga gcagagttgg 120

aaggtgttgt caaaagtgct gtctcgtttg ctttgaaccg gcagataacc atggacgacc 180

tcactaaacc tttggatgag gaaagcatta aggttactat ggatgacttt gtgaatgcac 240

ttcatgaaat tactcctgca tttggtgctt ccaccgatga tctcgaaaga tgcagattga 300

gaggtattgt tgactgtggt aaggcaca 328

<210> 40979
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B7

<400> 40979

acccaacata gagaataact ctgcaagaag ttgtgcagcc tatgagaaag ctgtatcata 60

gtgtaaacag aaaattcagt ttaagcagat tgaggccact cagcttgtga gtaatctgga 120

ggaaatggaa gtaacagagc ataatttaaa gacacagctt gaaaatgctc tgaaggagct 180

agaggctgct caacataaag cattatctgc aacctttgga acagctgaaa atgctctact 240

ggaagctaag tcagtgtctg atcttaaatc gaaagatttg gaggagaaga aaagggagct 300

tgaactattg gataacaagg tgca 324

<210> 40980
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-C1

<400> 40980

gcgaaggggg cacggaagcc agggcggcag aggcgctaag ggaggcaggg aggcgaagag 60

gacgcgagga gggcacggcc agcggcagag agaggcggcc tggtgtgcac gtgcgcgcaa 120

gtgaggagag aaggtgttac agacactgtc caggaatggg aggagggaga caacacgaca 180

tcagaaattg gggagggcga tggaccga 208

<210> 40981
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G11

<400> 40981

gactcagcca accccatctt catcgacatg aattactgcc ccaacaagtt gtgtactgcc 60

ggcggcgcct gcaaggtcac cgtgaatgat gtcaccttca agaacatcac cggcacctcc 120

ttcaccccgg aggccggcag cctgctctgc actgccaagg tgccatgcac cggcgtcacc 180

atggatgacg tcaacgtcga gtatagcggc accaacaaca agaccatggc tatatgcacg 240

aacgccaagg gcagcaccaa cggttgcctc aaggagcttg catgcttcta gaccctccat 300

cgactgaccc atctctctag ttataatttt tctctcgtcc ttgcattgcc cattagatgc 360

tatccattgg taacgcacaa cagtaaaacg acagacatcc gacagctata ttatgttcga 420

cggtgtaaca ccctg 435

<210> 40982
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G2

<400> 40982

cccacgcgtc cgcgcaatcg tcgactgctg ctgcgttctg ttccgttcgg aagatgttct 60

tggagagctt ccgggtggag agcccgcggg tgaagtacgg cgacggcgag atccagtcgg 120

agtaccgcta cgacaccacc gaagtcgtcc cgccggggaa tggcggcggc gcggggtggg 180

tggtgcgccc aaagtccgtc acctacaact tcaagaccag caccaacgtc ccaaagctgg 240

gggtgatgct cgtcggatgg ggcggcaaca acgggacgac gctcacggtc ggggtgatcg 300

ccaacaggga agggatttcg tgggagacga aagagaaggt tcacaaggcc aactacttcg 360

gctccctgac 370

<210> 40983
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G6

<400> 40983

ggggaaattg acaaagacga gtttaggaaa gtgatgacac tgatgcgatc ctataataga 60

gaaggagctg cccataggga tggtttacgc tttggacgca aggttggtca gccagtggaa 120

aatggtggac tggtcgaata cttctttggc aaggatggga atgaacatct acactatgat 180

aagttctcta gtttttgaa gaaattgcat gatgagattg tccgcttgga gtttagtcac 240

tacgatgtga aatcatccaa cacaatacct gttaaggcct ttgcgttatc catggttgct 300

tctgctgata tgatttacat agacaagtta ctggatagag ttgaggattt ggacgacaa 359

<210> 40984
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G7

<400> 40984

cggaatctgc aggaccctgc ggcgcggctt cttcgtggag aagaggttgc tgccgaagcc 60

agcgccaggt agccatgtcg tcgtccgtgc tgagggctgc ggccgacagg gccattcgca 120

ggcaggccct cacgctgacg aacgcctcgg tgtccaggat ccggcagctc ctcagcctaa 180

ggcaacggcc atacctgcgg ctgggtgtca aagcgcgagg ttgcaacggc ctctcctaca 240

ccctcaacta tgccgatgaa aaggggaagt tcgatgagct tgtcgaggag aaaggagtta 300

aagtactgat cgaccccaag gctatgatgc atgttatagg caccaagatg gactatgttg 360

atgat 365

<210> 40985
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G9

<400> 40985

ggcacccaca gacacgcata gccctttag cttaagggcc tatgggtact tactgggaca 60

gggcgctaag gactcggaga ttgcaatagc gcacgcagag cacaatgatc gacacacatg 120

tgatgacgta tataggctaa aagcattagc cggcacatag atcaagactg atgcatgaaa 180

agcaccacta ctacgtctac gtaagtctgg acaataagta tatgatgaca a 231

<210> 40986
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H1

<400> 40986

gcgacttcgc gtgcttgatt gaaacgcacc cagtccccgc tcctgtttcg atctcccgaa 60

tgccgatccc gctaccggag gcggaggcga tggcggcggc gccggcggta aggttcccgg 120

tcttcgggct cgtgcggctg ctgggcttgg ccgccgcggc ggcgatcctc ttctgggccg 180

tccacttccg aggcggcatg gcgctctcca ccgaagagga gagcaagctc cccctcttca 240

acgttcaccc agtgttaatg ctgattggtt tggtggcctt gaatggcgaa gctcttttgg 300

cttataaaac tgtgccagga accaagaaac tgaaaaagct agtgcac 347

<210> 40987
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H10

<400> 40987

ccaacagctt tttaaacttt ggtcaaaatg cagctcaaga ctcattccat gaaatgctga 60

ggtcaagagg ctctttcaaa aatggtacac ttgctgatcc ttgtgctccc agaggatatt 120

cacgcaatga aggtgcttca aggtcaacat tagagaacca gtatgttaat aatgggactg 180

gaaactttac agagtgcata tcttcttcac aacttttact gcaaaaagga aaggattagt 240

gccacatgta tctcatataa atgcagaaaa gtgccagtat caacaatgtc acctgggatc 300

tacttttgta cctgaactgc gtggatactt cttgggaact gaaaatttct attttacttc 360

aaagctcttt ggacttaaga agtcttcatc actatcttaa ttcatgtatg ctggagaaca 420

attttgcaat cagcatttgt cga 443

<210> 40988
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H11

<400> 40988

accacctggc aactacctga cggtcctctt gtagctaaag ggcccctgca tgttctacat 60

gggcatctct ctcgacggca accggctctg caccggctac ctcagcgcgt tctataggaa 120

ctggatcgag atcgagaacg tcaagaacct tctaatgaac cgtcactgtt ccatctacgg 180

gcatgtagcc ctggtgtgga gcaagaacca gttccatcgt tcttacaatt gcaagatact 240

tccttatagc ttgctgctgg atcttgtgac taacgtccag atcctacgca tgactctgct 300

caacagcaat ttcttccacc tcaacatctt tgagtgcaat aactatctga tcgacaaatt 360

gacggtcaat gtcatcagtg acagttcc 388

<210> 40989
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H12

<400> 40989

caaccaccac cagaagtgcc gccacctcgt cgaccaatac ctagaggcta cccgcggcgt 60

gggttggggc aaggatgccc gcccgcctga actccacgag cccaagaaga ccgtcaaggc 120

ggagtagcgg cgctgctgcc ttgcttctcg tgctgctgtt cctggattgg agaggtgatc 180

tgacccttcc attgagttga atgaagtagc ctggaactgt ggtagttcgt cttttacatc 240

ttaagctgct gatagacttc aaataaaatc ttgtccaaga aaacattctg tgagcgtaca 300

tgttgtcgtc gagctgtgta attgagcata tcgtcagatt gaaactcgtt gtctgccttg 360

gtcttcaaat ac 372

<210> 40990
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H2

<400> 40990

gcaaccagca cttaccaaat cctattcatt ccgctcttgg agccaaaata atgtggtcat 60

gtggcttgtt tgctttattg cgcaatttgg tcagtctgtt gttcgagcag actatcttat 120

cctccgcaag ggttttataa tgacccacaa tcttccgcca acatatgatt tccacaatta 180

catgatacgc tcaatggaag aggagtttga gaagattgtc ggagtgagtg gactgttgtg 240

gggcttcgtt gttgctttta tgttatttaa tgtagacgga tccaacctgt acttttggat 300

agcaattctt cctgtaactc ttgttcttct ggtgggtgca aagcttcagc atgtgattg 359

<210> 40991
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H4

<400> 40991

gattcgagca gccatgtggg cttcttatgc ggctcgcctc ctatacgcgc taacaaccct 60

gttatccatg atccacagtt tggtaaaaga ctgccatcct tttctcctct aggagggagc 120

tcctatggca aaatgccagc agtaagagtt gaagtaggct cgccatcttg cggcgttagc 180

agcagcccaa aagtaaggat cgaaggtttc gcctgtggca actccgagac ccattatgca 240

gttacctttg tctgagcatt tcgttgatat gttcctgatt ttgccctccg accgaccgac 300

cgctccttgt gaatcaccgt ggtggtgtgc aggatattaa gtagtgcatt taagctagcc 360

tgattagagt t 371

<210> 40992
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H5

<400> 40992

gtttgagcaa ccaagaaatc atttgctctg ctcacaaacg gtacacgcac tttcctgcgt 60

gggttgccac ctggttcata tagggaaacg gctcaactat ggaacagaga cattgtacga 120

ctggaaagct atgcaagcac atagcttttc atcgtcgata aagaggatta aacgtgccct 180

tgactcgtat catgaattgc gtatcgacca tttgcaactg gcttgcgcac tttttagaca 240

gtaccttctg atgcaaaact agcactggtt ggaagctgca tggctcaacc aatgagtagc 300

tatcttgaca 310

<210> 40993
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H7

<400> 40993

gttgttcatg tctgtgagct cgccgcagaa tggcgtcaga catttcattc agatgtagtg 60

ggggacattg tatgctaccg gcgatttggc cataatgaaa ttgatgagcc gtccttcacc 120

caacctaaga tgtacaaggt gattaggaac catccaagtg cgctagagat ttatcaaagg 180

aagttgttag agtctgggaa gatctcaaag gaagatattg ataggttaaa caaaaaggtc 240

agcactatac ttaatgagga atttcagaac agcaaagact atgttcccaa caagagggac 300

tggctttcag cttactggac tgggttcaag tcaccagagc agatttcgcg tatccgaaac 360

accggtg 367

<210> 40994
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-028-Q1-K1-G10

<400> 40994

ttctgggcga gcgaggatga ggcgaaggcg tgcttggcga aagaagccag cgtcgactcc 60

attggacgtc gccagtgtcg aggagtacaa gcagaaggcg ggcttggtgt cgaagcgggg 120

ccggacgtcg acaggcagca actaactacc gtgaccatcg tcaccgttgt ggtggttctt 180

cgccctccgt gccttcttcc ccctgtccga tagccgacgc cggtgcgaga tctactcccc 240

cccatcctcg cttcaacgag cacctttctt taatcggtta ggtaagatcc actttcctag 300

tacacggagt taatgctcag tgcttcatac tntggcaatc ctttgatttg gtcagtacgg 360

ttcgtatatc tgtgaaattg gttgacaatg ttcgtgcatg tgcgaccatg gaatacctat 420

ccgctctaag atctggtaga 440

<210> 40995
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H8

<400> 40995

cccacgcgtc cggtagcgat tgcttgtaac ccgagcgggg gcaataaggt agtgtggatg 60

tcaattgtgg tgcatgtgcc tgggtctagt gctacaaact gtggaccacc cattccaagt 120

tgtgtagtgg gtttcggatg ccttggtgaa agcctttgca ttccaacacc taaagtggtg 180

gacattgcgt gaggctggct tcacagagca gcgagtaccg cccgccacca gcggtggaag 240

gataatgagt cgctatgcta taggccaatt gaggcacatg tgccctctct ggtagaccac 300

tatctttttg ctatttttct tatctacttt tgttcctatg taaccattac gagtatcacg 360

tttttgtt 368

<210> 40996
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E7

<400> 40996

caactactgg aaattagaga gccggatctc ttggtcggag aacctgcgag gaaggactaa 60

ggagtcgaag atgactgcgg cggtgctgtc cgtgcgcacg acgacgacgt cgctgctagc 120

agcagtcatc ctgtgcctct gcatcgtctc cctctccccc cgcggcgccg ctgccgcgcg 180

ggtctccccc ggcgccagcc cgatcgtggc cacctgcatg acgggcccgt acccggagct 240

gtgcgtgggg gagctgggac agcggctgct ggacgtgcag acgtcgatcg cgtccgcggc 300

gcccgaccag cgcgcggcca ggatcgcggg cgcc 334

<210> 40997
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E8

<400> 40997

gagatacccg atcgacatag gcatacctga cttaacttga aggctgacac acgtacatgc 60

gggaggggag acccttatg agctggacct ggtagcggcg attgagatcc gacgcaactc 120

tatgccagct acttacacga gcacaataaa ctacgacgga tgttggagca catgaatgct 180

ttacatgatg agaatcatct aataactggt cacttgagtg acgcctgact gacaaagaga 240

gagatctact gatgaatggg ctgatatctc tactaaagag tcacatgtag acacccatga 300

acttcatgat ctatgtcaac gtcgacgaac agc 333

<210> 40998
<211> 422
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E9

<400> 40998

atggcgacca cggacctaag ccagtacaag gatcatggta attggatcga gattctacgc 60

gtggacaacc ttgtcatcac cggcaaggga aagctcgacg ggcaggggcc agccgtgtgg 120

agcaagaact cctgcgtcaa gaagtacgac tgcaacatcc ttaccaactc gctggtgatg 180

gacttcgtga acaacggtga ggtgtccggg atcacactgt tcaactgcaa gttcttccac 240

atgaacatgt acaagtgcaa ggacatgctg atcaaggacg tcaatgtgac tgcacccggg 300

gacagcccct acacggacgg gatccacatg ggcgactcgt ccggcgtcac catcaccaac 360

accgtcatcg gcgtctgcga cgactgcatg tccatcgggc ccaggacctc caaggtgaac 420

at 422

<210> 40999
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F1

<400> 40999

gtcctcgacc atccctgcaa attaccgcga tggctcccaa gatcctagtc atccttgtgt 60

tcctcgccgt ggcctcaccg gctgctctgg ccgccttcga tgtgatagag atgctggccg 120

acaagcccac gtactccacg ttcctgaagc tcctgcagga caccaaggtc gcgggcgagg 180

cgaatcagct ccggtcggcg acgctactgg tcgtccccga caaacttgcc aagcctctgg 240

cgtcgctgcc cgccgataag gtgcggccgg cggtggagaa ccacgtcctt cttagttact 300

tcgaccccat caagctggac gagatgaaga cacgcacc 338

<210> 41000
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F10

<400> 41000

gatcaccggc cgtcgagcga gcagtctccc aattccaccc aataactaat aacatctcct 60

cgaacgccag gttccttgga ccactatatc caggagcgac gaagtgatcc acccgccagc 120

catggagatg aagaaggtcc tctgcgccgc cctcgtcgcc gccgcctcgg ccaccgccgt 180

gctggcctcg gtcgcctccg aggcgccctc cgaggcgccc gccggcgcgg ccggtggtgc 240

ggctggccct agcgcaagcg gcgccgccgc cgccgtcgtg cccgccgtcg gggcgctcgt 300

cgcctccttc ctcgcctact acctccactg agcgacgacg cgcggggcgg caacgttggg 360

atgcatcgtg tttggttcat ccgattaatt aattggtttt tttatttacg tggtttgcga 420

ttggttaatt gtttgttt 438

<210> 41001
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F11

<400> 41001

gtggctgtaa aacagttatc tgaaacatct catcagggaa aacagcaatt tgcagccgaa 60

atagaaacta tttctcgagt gcaacaccgt aatcttgtga agttgtatgg ttgctgtctt 120

gaaggaaata aaccactgtt agtttatgag tacctagaga atggaagcct tgataaagca 180

ttgtttggaa acgggaaact gaacctagac tggccaacac gctttgagat atgcttaggc 240

attgcaagag gcctcgctta tctccatgaa gagtctagca tccgtgttgt gcatagggac 300

ataaaggcta gcaatgtctt acttgatgca aacctcaacc ctaagatctc ggatttcggg 360

cttgccaaac tgtatgatga caagaagact catgtcagca cgaaagttgc gggtacaatt 420

ggttatcttg cacccga 437

<210> 41002
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F12

<400> 41002

agaaaatagt gggatcgagt tgtttcactg cacgagcaca tcctccggcg accaccggcc 60

ggcctctccg tcctctagcg accgaccaac gcgccgagcg aagatgtcgt ggcagacgta 120

cgtggacgag cacctgatgt gcgagatcga gggccaccac ctcacgtcgg cggccatcgt 180

cggccacgac ggcgccacct gggctcagag caccgcgttc cccgagttca agcccgagga 240

gatggctgcc atcatgaagg atttcgacga gccggggcac ctcgccccga ccggcctgat 300

cctgggaggc accaagtaca tggtcatcca aggcgaacct ggagctgtca tccgtggcaa 360

gaagggatcc gggggcatca ctgtgaagaa aacagggcag tcactcatca ttggcatcta 420

cgacgagccc atgacttccg ggcag 445

<210> 41003
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F2

<400> 41003

atgcgctgca gcacctcaga cttgtctttc ctccgtccac cgagacattt tatttcgaag 60

agctagtaat tttctggagc gttgccttcc cacggtggct ggagctactg attcagaagt 120

gcaaaggcct gcgacggttt gagttgcagt gtggtctgtc attgctcagg agctgcctcg 180

acggtggcaa gaactggcat ctcgtgcagc agatccccga ggtgcgcatc ataagctgcg 240

atggcaagag atactttcgg tataacaaga gccgccgcat ctacgaaact aatgcacagt 300

cagaagaatg aagccatttc tgaaaacctt ggcacgacac tggtttgttt tgggtcagcc 360

acacgtttca 370

<210> 41004
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F3

<400> 41004

cccacgcgtc cgttctctct cacactacat ggagagtgag tgccgggaga cgctaccatt 60

ggcaggcgcc gctctccctc tctccactcc cgcgcgtgaa gactccagag gtgccgagtt 120

gctcggtgcg actccttcgt cgccgtccac ggaagcggag gccggcgacc aacctccccg 180

cgcggcgaag ggtacaggcg gccggatccg ttgggcctca cgcgaggaga gccacgcgaa 240

cggattcgac gaccgatgag tccggatcga agcttccact ggccgacttc atcgccgccg 300

tcgccgttca accctgtccg tcggcgattc aacgaggctc cttccccggc tgggtgt 357

<210> 41005
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F5

<400> 41005

agaaaatagt gggatcgagt tgtttcactg cacgagcaca tcctccggcg accaccggcc 60

tgcctctccg tcctctagcg accgaccaac gcgccgagcg aagatgtcgt ggcagacgta 120

cgtggacgag cacctgatgt gcgagatcga gggccaccac ctcacgtcgg cggccatcgt 180

cggccacgac ggcgccacct gggctcagag caccgcgttc cccgagttca agcccgagga 240

gatggctgcc atcatgaagg atttcgacga gccggggcac ctcgccccga ccggcctgat 300

cctgggaggc accaagtaca tggtcatcca aagcgaacct ggagctgtca tccgtggcaa 360

g 361

<210> 41006
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F6

<400> 41006

agcaaaaaca ccatcatctc atccgcccgt ctcaacgcca ccccaatggc ccagagcacg 60

aggatggtgg cgctggccct ggtggtcctc ctggtggcgg cgacggcgtc ggtgcccacg 120

gccaccgcgt acggctgcta cgacgactgc tacgagcggt gcgccaacgg caagaaggac 180

gaccccgcct gcaccaagat gtgcaaccag gcgtgcggca gcaccgacaa gggcgccgcc 240

gccggcgcgc cggcttgatc gacccgggct tcatcggcgc gcgggctcag ctcgatatca 300

gcatcatata caatcgctgc tccgtcgctc acgtcagccc atgcatgatc tctcgacccg 360

gcccattg 368

<210> 41007
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F7

<400> 41007

gcagcgtacg ggaccgcgaa gagcggcgtc ggcgtggcgt cgatgggtgt gatgcggccg 60

gagctcgtca tgaagtccat cgtgcccgtg gtcatggctg gtgtgctcgg tatctacggg 120

ctcatcatcg ccgtcatcat cagcactggg atcaacccca aggccaagcc ctactacctt 180

tttgatggct acgctcacct ttcgtccggg cttgcctgtg gccttgctgg gcttgcagct 240

ggcatggcca tcggcattgt tggtgatgct ggagtcaggg cgaatgcaca acagccgaag 300

ctttttgtgg gcatgatcct catcctcatt ttcgcagaag cgcttgc 347

<210> 41008
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F8

<400> 41008

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgctgtgggt cgtcagcaaa 60

gggagagcgc cgaggtgata gagataatgc tgtggtggtg ctcatggttg gatgaatggg 120

ggtgtcgggc tatgcgcggt tgacgtcctc attggagcat acccccttcac cgttggttgc 180

ctcgtgccgt ggcctgcgaa gtcgatgact gctcatcatg gtaggaggtc ccgaccgacc 240

gtgcaacctg gtgcacgacg ctgtggcatg tgcgccaatg acatcacggt caagaacagg 300

taccacagga tgaggcgctt ggacgatgct gagatgagtt 340

<210> 41009
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F9

<400> 41009

gagctgaact gtgttggact gttggataat gctggttcgc ctcatcggtt gccacaggtg 60

cttaatggcg agtacaccac tgatcacata tcaggcgctc ttattattat tatttcacga 120

tgtctcggga tgttattcta gcctgctggt gagtggtgac ggcactccca ggcgcccccg 180

aagtccagcg accattcgtt tcagttcagc cctggagtcc gatgatccca caagcaacac 240

ggccgccagc gtttccggtg ctcttgctga gctcgtgtac acccctttcca agatcatcgg 300

cgtcagcgtg aacaacaaca gctctgccaa tgattgagtt tggcccagtc agtgtgatct 360

ggctgtcggt aacattaatg tttgcaacac catctgctcc agctgtcaca tttccaagat 420

caccggcatg 430

<210> 41010
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G1

<400> 41010

cccacgcgtc cgcccacgcg tccgcctctc ctccggctag ggtgttcacg cctgccgcgg 60

cgaagcttct gccctccccg gcgtcgggct ctggtcgtcg tcggccggga agatggctgg 120

cggcttcagg gtacttcatc tggtcaggcc ctttctggct ttcttgccag aagtgccgag 180

cgcggatagg aagataccat tcaaagaaaa agttatctac actgttattt ctctcttcaa 240

ttttctggtg tgcagccagc ttccactcta tggcattcat tcgacgactg gagctgatcc 300

tttctactgg atgcgtgtta tcctcgcatc aaaccgtggc actgtgaagg agttgggtat 360

tacttcaatt 370

<210> 41011
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E6

<400> 41011

cccgggacct ccaaggtgaa catcaccggc gtgacctgcg gccccggcca cggcatcagc 60

atcggcagcc tagggcggta caaggacgag aaggacgtca cggatatcaa cgtcaaggac 120

tgcacgctta agaagacggc caacggcgtc cgcatcaagg cgtatgagga cgccgtctcc 180

gtgctcaccg actccaagat ccactatgag aatatcaaga tggaggactc gggctacccc 240

atcatcatcg acatgaagta ctgccccaac aagttatgca ccgtcaatgg tgcctgcaag 300

gtcaccgtca aggacgtcac cttcaagaac atcaccggca ccttctccac cccggaggcc 360

gtcaac 366

<210> 41012
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D1

<400> 41012

cccgatcgcc accgccgacc ggactcccct caaaggcggc cacagcacag cgagcatggg 60

agaccggcat cagcatgggc ctggcagcgg cgtggaggac ccggcgacgc tgctgcggcg 120

ggtgcagacc cgcgcgccca actcgacgca ggtggtgggg ttcctgacgc tgctcgtctc 180

tggcgccgtg ctgctgctgc tgacgggggt gacgctgacg ggcgccgtgg tggcgctcgt 240

cttcctgggc cccatcgcgc tgctcaccag ccccatctgg gtgcccgtcg ccgtcgtgat 300

ctccgccatc gtcgccgccg cgctctccgc ctgcgccttc gccgccgtcg tgcttcccgt 360

gggca 365

<210> 41013
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D10

<400> 41013

accgaagaga gaaacgcgag caaccagcga tcgccccatg gccgccatgg ctcgttccgt 60

ctccctcgtc gtggcgcccc ttctcctcct ctccctcctc gtctccgccg cggccagtgc 120

gcggaccgtg ggcgacaccg tgcaggacgc gtgcagcaag acccagttcc ccaagatctg 180

cgtggacagc ctcgccgcca agccggagag ccagaaggcg acgccgcgca agctggcgga 240

gctgttcgtg aacatcgcgg ccgagaaggg atccgggatg gccaccttcg tgcaccgcaa 300

gtacagcgac aaggaggaca gcgacatatt caagtgctac gacagctgct ccgacgacgt 360

ggaggaggcc gtcgcccacc tcaacggcct cgtccgggag cccaccgacg ccaagttcct 420

cgagctcaag tcgt 434

<210> 41014
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D11

<400> 41014

cccacgcgtc cgcagacaac tagaccaatt aatgatgtgg agaacttaga tatgaaggcc 60

aaaatatcta caatttcctg aaagttcaga tgagagttgg tggtttggca attgcatact 120

tgctttggct atcaacaagg tcagagcatt ttgtgatatg ggggacatgg ttgttctagt 180

ttccactctc ttgctctctc tctttttctt tttcgttcac caatctttat tgttatgtga 240

cagctagaga ttgcaagctt tgtttattat cgtggttgaa catgatagaa gctc 294

<210> 41015
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D12

<400> 41015

aaaccctctc ctctcgagaa gcagagcggc ggagatccgg agagaagcca tcggcagccg 60

ggaagcccgt cgcgtgcctt tcttcctcga cgtgccatga ttaacggaat atttgagcac 120

tgggacctgg agcgacagtg aagtgtgacc caggagagtt ctggtgccat gtttcacagg 180

ctattccatt attcccaaaa gcagatgatt tccagtgatg gggatgaatg tgagaggtca 240

aatgaagaag atgaagactc caaaggactt ctactcgaaa gtgaagtagc attcatggac 300

tatgttaggg aagttcgtta ttaggcaact gaattgtggg tttgcgttta ctgctacaaa 360

cgggctctaa ggcagcatca caatgtccga tgcgtatttg attattgtgg gttgttggaa 420

agttgctgtt ttttctgctc aaca 444

<210> 41016

<211> 269
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-028-Q1-K1-D2

<400> 41016

ncttatcata cgcagcatat ttgtcgacgg gatggcgtgc gtaagcgggg gcttcgccat 60

cagccagacg gtggcggaga ggctggagcg gatgcaggac gcgtgcatac ggctgaaccc 120

gtctctgtac ggcagcgact accgcatgca ggcgtgcatg ggctagctgg gcgtgccgtt 180

gacgaggcag cccgtgcttc accagtacga cgtgtacggt gaccttctgg gacttctcgc 240

agcgcaccgc gacgtgccgc tcgtgtcgc 269

<210> 41017
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D3

<400> 41017

cgcgttcgcg ccaccgactc gctcgcgcac ccgctccacc tctgccggct ccgcctcgcc 60

gacccgcgct cgcgctcccc ctccccacgg cacgggcggc gcgccatgtc ggtccgcagc 120

tgcctcatcg acccggacgg cagcgcgctc gtcgagctcg tcgccccgtc cgaccgcctc 180

ccggcgctga gcgcggaggc cgaagcgcta ccgtgggtgc gcctcgcccg cggcgacctg 240

cagtgggcgc acgtgcttcg ctaggggtg 269

<210> 41018
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D5

<400> 41018

gcttcctgca gcggatggac ctgtgccgca aatacgcctt tggcaagatg cttgtggtag 60

gctctgagcc ccctttcaag gtcaaggggc tctggctctt caggggctca gaaattccca 120

agtttgtcat ggacgaagtc tatgacatgg agctttatga gtggaccaag gttgacctct 180

ctgatgaggc acagaaggag cgggtcaatg ccatgattga ggaccaggag ccattcgagg 240

gcgaggcctt gctggatgca aaatgcttca agtgaggaaa gagtttttgg gtccaattct 300

aaaacagcca tggattatag tttgtgatat ggcgtgctgg ttatgatta 349

<210> 41019
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D6

<400> 41019

attcgatcca aaaaatagac aagaagataa tataccgaat atgggaaatt cttcatgggt 60

gggtctttgt aaaataaaaa ggtaaaagaa aactaaaaaa tataaaataa cataaaaaaa 120

tactatttaa caaaaaaagg gaggtctatc caaagttcct ttataatctg tactaatgtt 180

tttttggttt aaaagttttt tta 203

<210> 41020
<211> 342
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-028-Q1-K1-D7

<400> 41020

gtctaattgg ggagatttga tgtgttattg gtgccgccgg atctcgccga catgtggaag 60

caatttatag gaaagctatc gtggaagtca atgaaatcca gctctggcag cgggggggtcg 120

ccgccggcgc cactatcgtc gccgcgggag aatggagcct caccgcggga gaatggggcc 180

acggggaagc cgaacgtctc gcctcggtct cccgcggctg gcgccggagc cggagccgga 240

gccggagccg aagtgaggtc cagggaggac gcctttgtcc agaaagttaa catttgctgc 300

gcggtgtacg acttctncga ccgaagcaag gactcgccgg ag 342

<210> 41021
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D8

<400> 41021

agtcgcacta ggaacttact acattcttgc tctatagaaa ctgtcaggct tgtgagagtt 60

ctgttatgta ccgcttcttt tctaaagaaa aatagtagag ttttagaaaa cataatgaat 120

acagcttctt ttattgaact cttagaagta ctccagccat tgtagtttaa tttatctgca 180

tacagttggt tgtattgaac actgggacac cctgaggtct ttgttgttca attatgatta 240

tatttctgta tactttattt ttaatggtta atcaaaatgc tagcttatat aatgctccct 300

caaatgcagg ttgcaatatt ttccagcata gcttgctcac ctacttctca atttagaaga 360

c 361

<210> 41022
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-028-Q1-K1-E10

<400> 41022

aataaagcat cgatcacgac aagatggcgt gctcagacaa tgcgaagaga gccttgatcc 60

tgctggtcct cttctgcatc gtgcatggtg agaaggaaga gtcaaagggc atcgatgcga 120

aagcgtacgt gcctggtggg tacttcgaca tcaccaagtt gggcgccttc ggcaatggca 180

tgacagacag cacgaaggct gtgcaggagg catgggcatc tgcgttcgga ggcactggga 240

agcagacaat cctcataccc aaaggcgact atcatgtccg acaactcaac ttcacaggcc 300

ctcgcaaggg cgacgtgacc attcaggttg atggcaatct gctggctacc actgacctaa 360

gccagtacaa ggaacatggt cattggatcg agattctacg cgtggataac ctgntcatca 420

ccggcaaggg aaaccttgac 440

<210> 41023
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E12

<400> 41023

ggtgtggaag gcaatatctc cggcggtctt gcagtcgtcg ttcaacacca cgccggagat 60

ggagaagctg ttccgtagca agaggcttga ctcggagatc ttctttgcgc cttcaaactg 120

attcattcgc cggtggaaaa tggtccatcc atctcgagta aacttggtgt cctgggtgtg 180

ttctttagca gcttcagttt agaataatca ggttatgtct tcatcatcag ttttttagat 240

cggttcatgt aataataaac ttgagatggt acacatgttt cttaattagt tctcttggta 300

ttctttaaaa aacaaacaca gtcctaaatg tgaacatg 338

<210> 41024
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C9

<400> 41024

gagcaagacc acctaggagg cctctctctc cctctcccca gccacccccg tagcgagagg 60

gagggcggaa gaggatgagc gcgtccaggt tcataaagtg cgtcacggtc ggggacggcg 120

ccgtcggcaa gacctgcatg ctcatctcct acacctccaa caccttcccc accgactatg 180

ttccgacagt gtttgataac ttcagtgcca acgttgtggt tgatggtaac actgtcaacc 240

tcggcctctg ggacactgca ggtcaagagg attacaacag actgagacca ctgagctatc 300

gtggagctga tgtttttctt ctggctttct cactgatcag taaggccagc tatgagaatg 360

tttcgaagaa gtggatacct gaactgaagc attatgcacc tggtgtgcca attattctcg 420

t 421

<210> 41025
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E4

<400> 41025

ggaaagggca aaaaggcagg aagaggcacc actgattgag caagctttc aaaaacgtct 60

tgaggaagag aagatccttc acgagcaaga gcagcttcgg gagattgaac tcagcaagca 120

acaccatgcc agcgacttgc aagagaaaaa tagactttca cggatgttgg agcacaagaa 180

tgctttacag gagagaatca tccaagaacg tgcagctgag tttggccgtc tgaagaaaga 240

gagagatgaa cggatgaatc ggttgatatc ttcaagaaag cgtgaaaggg agacagtaag 300

gaagttgatg ttttatctga acctggagga acagcggatt gaaatgctac gtgaggaag 359

<210> 41026
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E5

<400> 41026

cggacgcatg ggccgtggtc tcgaagaagg cagcctctaa ctcgtcaccg gcaacggcac 60

catccagggc tatcacggat gccgagcagg ctggtagata ccgacacgcc ttactctcag 120

acctacgcag ggcaagaagc aaatactgga cacccatgtc ctcctagctg ctcactctta 180

agagctggaa gatctattgc tgggactcag aatgttacaa gcctgcacaa ggatgaagca 240

tggaacgtga atgtacacat ccatggctga gatcttgaac agggtcatac atgtggaacg 300

atcgacgcgc ttaatgttcc attagcagat 330

<210> 41027
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B2

<400> 41027

ttcagggctt gacctgcttg atgcagattt caacaagaac agaagacttt attgtggaca 60

ctcttaagct acgcatatac attggtctct atttgcaaga gcctttcaaa gatccaacaa 120

agagaaaggt aatgcatggt gcggatcgtg atataatgtg gctccagcgg gacttccaca 180

tctatgtgtg caatcttttt gacacaggac aggcttcaag ggtcttacag atggagagaa 240

acagccttga gcacctattg cttcattttt gtggagtaac agcaaagaag gagtatcaaa 300

atgcagactg gaggtcgaga ccacttcctg atgaaatgat caagtatgct agagaagata 360

cacacta 367

<210> 41028
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B3

<400> 41028

tgattactag gtttttttaa aaagaattga taataaacat ccgataatca atcaagcgca 60

tacaaagaag atgatcaaaa tgcaaataaa taattaaaca cttaaaaagt attaccctaa 120

ttaatataat aactaaattc attatttta attgatggct tttatggtgt tacaataaga 180

aacataatac ttcaatctta ctaatgttta aagcaaaaat cttgggaaga atggtgcaac 240

aaacacaaaa actctgccac ggtagcacaa cctgtctctg tgatgatcta aacaattttt 300

ttcttttcat gaatgttttt tgctttgttt ttgggacagt cttacttgat tctt 354

<210> 41029
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B4

<400> 41029

attcactgga gatgactgtt gtgagtatca tgtggtcgtt agtgcaggtg caggtgctgg 60

tggtggtggc actagcattt ctggtaggcg gtgcctggtg tggtcctccc aaggttcccc 120

cgggtaagaa catcacggcc aaatatggta gtgattggct agatgccaag gcgacatggt 180

atggcaagcc gacaggtgct ggccccgacg acaatggtgg cggctgcggg tacaaggacg 240

tgaataaggc ccctttcaac agcatgggcg cgtgtggcaa cgtccccatc ttcaaggacg 300

gtctaggttg tggatcctgc ttcgagatca agtgcgacaa gccagcagag tgctctggca 360

agcccg 366

<210> 41030
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B6

<400> 41030

aaaatatgga tccaaagagc catctagcgg caagatgtct tcaaaccatg aaagcttgca 60

tccaaggaag actgttgtag aattaccagt ccgtgtggac tttgttgggg gttggagtga 120

tacaccttcg tggagcttgg agcgtacaga ttgtgttttg aatatggcga taagggtatg 180

aggaagcctt ccagtcggtg ctatcgtaga tacaacagat taccaccttg gagtaaggat 240

cgaagacgac tcttgtagac atgtttatat cgatcatct 279

<210> 41031
<211> 330
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-028-Q1-K1-B8

<400> 41031

tttgaagccg agaagatggt gctgaagacg gaactctgcc gcttcagtgg ccagaagatc 60

tatcctggga aaggcatccg gtttattcgt gctgattctc aggttttcct ttttgccaac 120

tcgaaatgca agcgctactt ccacaaccgc ctgaagcctg caaagcttac ctggacagca 180

atgtacagga agcagcacaa gaaggacatc catgctgaag ctgtcaagaa gaggcgccgc 240

gccaccaaga agccatactc gaggtccatt gtgggtgctt tcttggaagt gatccagang 300

aagagagctg agaagccttg agttcgtgat 330

<210> 41032
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B9

<400> 41032

ccccaacaag ttgtgtactg ccaacggcgc ctccaaggtc accgtcaagg atgtcacctt 60

caagaacatc accggcacct cctccacccc ggaggccgtt agcctgctct gcactgccaa 120

ggtcccatgc accggcgtca ccatggatga cgtcaacgtc gagtatagcg gcaccaacaa 180

caagaccatg gctatatgca cgaacgccaa gggcagcacc aagggttgcc tcaaggagct 240

tgcatgcttc tagaccctcc atcgactgac ccatctctct agttataatt cttctctcgt 300

ccttgcattg cccattagat gctatccatt ggtaacgcac aacagtaaaa cgacagacat 360

ccgacagcta tattatgttc gacggtgtaa caccctgaat ttgagggtat aaaatttctt 420

ctccaaatac caaccaaatt ta 442

<210> 41033
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C1

<400> 41033

ggcgggagtg cttgatgagt aagactggct tctggggtcg atttgcttct gagttgttta 60

ttttatatcg tcgcaatttc gtggttgtcg attggttatt ctgtgaagca gccaagccaa 120

gctattgtta tgaaaatttg tcgtctgtaa gcatgtgaac tttctacgtt gccacatgct 180

gcatcagtct taataagtaa gtatgcagct ctaggtggtc agctgcgtct accacaatga 240

gcatgtacgt attgagaaat atctgtgaac ccattttgct tatgaataa 289

<210> 41034
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C10

<400> 41034

tggtcagcat atctgtcgcg ttcatctgaa attacagctg catccggctg atgcaagagg 60

gactatcgca atctagtt 78

<210> 41035
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C11

<400> 41035

gtgctacgac agctgctccg acgacgtgga ggaggccgtc gcccacctca acggcctcgt 60

ccgggagccc accgacgcca agttcctcga gctcaagtcg tggctctcct ccacgctcgg 120

cggcacctcc acctgcgagg acgcctgcaa ggacctgccc aagaccagcg acaaggacga 180

cgtcgtcaac ttcagcctcg acttcgagaa gctgcagcgc gtcacgctcg acctcatcac 240

cgaggcgtcc ggcaccatgt ccgcaggcat cgccctgcca ccctccaacg ccggagcgcc 300

ctcctacggc gcggcggcgc cttccggggg ctccgccgat gcccccgccg gcgcctccga 360

gggccctgcg agcgccagcg gcccgtctgg tgacgacgcg ccggcgtccg gtgctggtgc 420

cagcgcgtcg gctgctg 437

<210> 41036
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C12

<400> 41036

aacaagactg acagcgacga tgatgccaca gctgcgtagc ctcgtcgcgc tggtcctcgt 60

ggccacggcc atagccgccg ctcccggcgt tgggtttgtc gtcaccggcc gcatctactg 120

cgacaactgc cgcgccgggt tcgagacaaa cgtgtcccac gccatccaag gcgcgacggt 180

ggagatggag tgccgccact tcgagtcgca gcaggtccac gacaaggcgg aggcgacgac 240

gggccccggc ggctggtaca ggatggagat cagcggcgac caccaggacg agatctgcga 300

cgtgcgcctg ctcaagagcc ccgaggcgga ctgcgccgag atcgaccact cccgcgaccg 360

ctgccgcgtc ccgctcaccc gcaacgacgg catcaagcag agcggcgtcc gctacgcc 418

<210> 41037
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C3

<400> 41037

ggaaatgctc attgaagagc ttatcggaaa ggctacatgc tatactttgc agatttgtgg 60

tcatggtgtt tggtattcat tataaactgc catctatatt agtgtcggga tcataggaat 120

gtggatagca agaataatga cagggttgtc gtacctgaag ggttaaagga tatcgaagat 180

tcaggttatt ttgtaacata tctacaccat tatgttaagt atttacacct tgacattgcc 240

cgaagaccag ttgatgtttt ggagaaacct gatgtcttct tagagcatat t 291

<210> 41038
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C4

<400> 41038

tttcacggga cctgagacgt gcttctgtta gattacacac tcgtgtttct gacagctgcc 60

cgacactgtc atgagcgaat tacatggaat gtcatccttt gtagtttaca caccattgca 120

tgcacttcac taagcctcat tgacataccg ggcatatact accgtaatga ggtttaactc 180

tatagccaaa tatgatgatc gacacaatcc acttaatatt atatttacct acttttacat 240

tgtcacgtgg ataagtccct tgatcctgta aaaa 274

<210> 41039
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C5

<400> 41039

aagacctcag tgaacttcca tgcggtccta gatacactac tgaccacatc gcgtacccgc 60

gggatgccac ttgcgacaaa tcaagagagg catcataatc ctgacctctt tcctaaacta 120

taacatgcag tgctggtccc tgagaccgtc tgtgcaagag acaacacctt caaacacaaa 180

ggcgatcaca tagacagtac accctactgc ttactccagt tcaacctgcc gattgccctt 240

tcgaccgtgg taacatccaa agagcgaatt gtataactga caccagctca ga 292

<210> 41040
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C6

<400> 41040

gtggaggagg ccgtcgccca cgtcaacgga ctcgctcggg agcccaccga cgccaagttc 60

ctcgagctca agtcgtggct ctactacacg ctcggcggca cctgcacctg cgaggacgcc 120

tgcaaggacc tgcccaagac cagcgacaag gacgacgtcg tcaacttcag cctcgacttc 180

gagaagctgc agcgcgtcac gctcgacctc atcaccgagg cgtccggcac catgtccgca 240

ggcatcgccc tgccaccctc caacgc 266

<210> 41041
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-028-Q1-K1-C7

<400> 41041

gagtcggatg gctcgtggct gccctgctca tacgtgcttg ccgctcgacc gtatgcgtaa 60

cactnccgtc aactgtctca aggtatggat gtctcattgg tcccgacgaa tcagctcggg 120

caccgcttgg acgcgtcgga catacaacgg actgtagcgc ggctgaaccg atgaaccgac 180

cgttcaccgt ccaggagcta gtccgattcg ccgtctatga gcacaacttg aaggccaatg 240

ctcttctggg gttcgagaag cttgtgaagg ctcaagacac aggtgggtgc tggcacgatg 300

tactatctta gtttggaagt gaaggatggc gaagctaaga agctctacga agttaacgtc 360

tgggagaagc catgggagaa ctt 383

<210> 41042
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C8

<400> 41042

ggagtgctcc ggcaagcccg tggtggtgca catcacggat atgaactatg agcctatcgc 60

ggcgtaccac ttcgatttgg caggcacggc gttcggcgcc atggccaaga agggtgagga 120

ggagaagctg cgcaaggcgg gcatcatcga catgcagttc cgaagggtca agtgcaagta 180

cggctccaag gtcaccttcc atcttgaaaa ggggtgcggc cccaactaca tggcgctact 240

ggtcaagtac gtcgacggcg acggtgacat tgtggccgtg gacatcaagg aagaagggct 300

ccgacacgta cgagcccctg aagcactctt ggggtgccat ctgtaggaag gacagcgac 359

<210> 41043
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H7

<400> 41043

atcgatcacg acaagatggc gtgcacaaac aatgcgatga gagccttgtt cctcctggtc 60

ctcttctgca tcgtgcatgg tgagaaggaa gagtcaaagg gcatcgatgc gaaagcgtcc 120

gggcctggtg ggtccttcga catcaccaag ttgggcgcct ccggcaatgg caagacagac 180

agcacgaagg ctgtgcagga ggcatgggca tcggcgtgcg gcggcactgt gaagcagaca 240

atcctcatac ccaagggtga cttccttgtc ggacaactca acttcacagg cccttgcaag 300

ggcgacgtga ccatccaggt ggatggcaat ctgctggcga ccacggacct aagccagtac 360

aaggaccatg gtaattggat cgagattcta cgtgtggata acctggtcat caccggcaag 420

ggaaaccttg acgggcaggg cccaaccgtg tggaacaaga ac 462

<210> 41044
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H8

<400> 41044

gtgttactct ttttttgtg tgtgtctcct ggcaatagct aattatgtca aaactgtcat 60

tgataccacc ttttccatta atcattcctt aaaagaatgt gtaaatagat tcctatgtgt 120

ggtccatgat gcagatgccc ttcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

gggcagccag ttttaagggt ccaaacttac attcgcgagg gtgccacctt ttaagtattc 240

aatcttgcca ccttaa 256

<210> 41045
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H9

<400> 41045

gaaattttag ttcaatcatt gtatctatta gatatgtcag agtcctcttg catacatcta 60

ttgaccgcgt aactcaaacg gggagctggc aatgatttta cacattggac ttcagcagtt 120

cctactgcac cccgattgcc tctcaccatg tctgcactga catggttcaa tgctccggtg 180

ccaccattta tgactaccac gacggtgatt tcgtatacca actacatgac caatgctatc 240

ttctctaacg ccatgggcat caccaaagtg tagcctcaaa gagcttgcat tcttatagac 300

cctaaattaa ttgaccca 318

<210> 41046
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A1

<400> 41046

gccctggcta gcaccacaca ccgcaggtat ggagaaggcg acgaggctgg ccttggcagc 60

ggcggtggtt ctgtgcctgc tgctggcgac cgggccgcag gaggccgtcg gcgccgaggg 120

gatgctgtcg tatgataagt tgctcagctg caaggtgctg ggcaactgcg acaagaacag 180

gggccccggg gccacctcgc cggggaagcc cgtaaacaag tacacccgcg gctgcagccc 240

gctgacccgg tgccgcggcg gctgatcata tctccttggt ttctggtcga tgtgcg 296

<210> 41047
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A10

<400> 41047

ctcataaacc ctatataccg ccgactcgcc gtcttcgcct gccgccggat ctctgcaccg 60

gcggtagaga agcccgtgct gcccctcgtg tatcaccgga acttgcagca aagacacaat 120

tccagtttgg tggatgcgag tggaggattc agcgagatgc ttgcctctac acggaggtgc 180

tatgtatttg gaggcaaagg tggtgtgggg aaaacaagca tggcggcgtc gcttgctgtg 240

aagtttgcca accatggtga accaacagct attgtttcga cggaaccatc tccgtcactc 300

ggtgatttat ttgaacaaga catgggtgtt ggcggcaaaa ctgtacgcat cactggattt 360

gactctcttt ttgcagttga ggctggtcag ttcaagataa agggagaacc tgaagatctt 420

ggatctttta tcaac 435

<210> 41048
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A11

<400> 41048

atgcgaccat gtcagtggtg ggggaggcca ataacccggt ggccggagtc cgaggggata 60

acccccaaca ccagcaggct gcgccggctc cggcgccagc acaggggggaa gtggcgcatg 120

aggctgtagt gcaggggacg ggacaagagc aggatcgaga caaggcggat cgagaggtgc 180

aaggcggtgc gggtgataag gacgacggcg cgtgcataga tctggtcctg gtctaggatc 240

cggaggtcct tgcagtcgag gatccggagg aagctgcagc aaccgcaaca ctccaggaag 300

aaatgaaagc gcttgtggca tctatccctg atggtgctgg agcagcattc acagtcatgc 360

agcttcagga gctagagcag cagttcatgg tgtaccagta catggctgcc ctaatacctg 420

tgcctactca cc 432

<210> 41049
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A12

<400> 41049

ctcagccaac cccatcttca tcgacatgaa gtactgcccc aacaagttgt gtaccgccaa 60

cggcgcctcc aaggtcaccg tcaaggacgt caccttcaag aacatcaccg gcacctcctc 120

caccccggag gccgttagcc tgctctgcac tgccaaggtc ccatgcaccg gcgtcaccat 180

ggatgacgtc aacgtcgagt atagcggcac caacaacaag accatggcta tatgcacgaa 240

cgccaagggc agcaccaagg gttgcctcaa ggagcttgca tgcttctaga ccctccgtcg 300

actgacccat ctctctagtt ataatttttc tctcgtcctt gcattgccca ttagttgcta 360

tccattggta acgcacaaca gtaaaacgac agacatccga cagctatatt atgttcgacg 420

gtgtaacacc ctgaatttga g 441

<210> 41050
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-028-Q1-K1-A2

<400> 41050

cagcaatggc gctgcttgcc tccgactttc ctcgcgtcat ctcgtgcttc ccaatcccta 60

tagatagaac tggattgatc cccatggacc catgattctc tcagacgcca ctgcgcctgt 120

tcgacgacgc gaagccagaa ggcctcgtgg tcggggaggc tgacgcagag agggacgatg 180

ggaacggggg tacccgccta caacggcgct cggggcataa tagttggtca ggcgtgatca 240

taggggctca ctagaggcgc gtgcatcggt ccgtggggcc gaagacggtc ggtgcggcgg 300

cgattgctcg ctgggatccg caagaaccgn cgtccgatca tcctgcgttg tcagcactct 360

tccca 365

<210> 41051
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A4

<400> 41051

tcttcctgga cctgtgactg attctgagaa gctaatttgg aatgttctgg aagctgaacg 60

acctgacatg aggcaattac atggaaagtc cctcgttgaa gtaaacagaa gtttccttga 120

aaaacacaat gcttccttga tgcaccgagc agctggtgct gaaatgatgt atctcttaga 180

gccaaataag aagatggagg caattaattt aattgaagat tcaacaaata ttacatcatc 240

agggcatagt ttgcttggtc ctgtaaaaac atggcaaatt caagattgta ttgatgttca 300

taaattgctg gagacagtct ttggtgatca gaatgttgca aataagtgga aagcacggtg 360

cgcggaatat tt 372

<210> 41052
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A5

<400> 41052

cggacgcgtg ggcggacgcg tgggataaga gggcttcatg gatccagcag actagaggat 60

ttcggtggaa gcataccacc agcagcgtca tcggcattag tcaagctgac aaaccggctc 120

aacttcctga aagaacgtat ggctgctgct ggcaagcgag atgcagagct tggatctg 178

<210> 41053
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A6

<400> 41053

cccacgcgtc cggggcgtcg ctctcgaagc caaccggctg cgtcggggcg tactctcaga 60

cctcgtcgcc gccgctgggg ggtaccaggc ggcgctgtac ctcgaggcgc tctcgcgctt 120

cgcgttgtcc atgcacgacc ccgaggtgct ccgccgcttc gaccagtgtc gcgcctcgcc 180

tcgtagctag ttacccttct tgttctcaag gcatctttgg gaagcatgag atgggctagc 240

atgtggctga tgcagtgcga aacagaacat aaccatgact acgagtggcc agttgggcca 300

ttaggtggtg gtgagcgact cgaaaacgta gca 333

<210> 41054
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A7

<400> 41054

caacgaagcc ccacacacac aaaagcaaaa agcatcatca caataatggc ccgcgcgtgt 60

gtgttcctcg tggtgctcct actggccgtc gttgcggtgg cgccgattgc gggggctgcg 120

cgtgtggatg tcgtggaggg catgttcatg gcgttc 156

<210> 41055
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A8

<400> 41055

ttcgtggacg ctgtgactgc ttctgagaag ttcattagca atggactgga agctgaacga 60

cgtgacatga cgcatttaca tggaaagctc ctcgttgaag taaacagaag tttccttgaa 120

gaacacagtg ctgccttgat gcacccagca gctgatgctg aaatgatgta tcttttacag 180

ccaaatgagc agattgaggc actcaattca atcgaatatt caacaactat tacatagtca 240

cggcatagtt cgcttaatgc tgtaaaaaca tggcatatct aagaatgaat tgatgttcat 300

tacttactgg agacagtc 318

<210> 41056
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A9

<400> 41056

atgatgttgg actggtgata ctttaggggg ctcgagtggt ttctcgagtg cctctgcgta 60

aggacctatt cgttcgatga ccgcccggaa aaacagtgca accatgaggg tggaatggga 120

tgcccttagc taattagtta gagaaactag agatgtagtt gcttcgccgc cgtgccgtca 180

atggggtcca ggcacagtgc ttgctctgcc gaggctgggt gccgaggttc tttcattttg 240

cttttgttag tcacccctct gcgaggagtg gtgctgtgtt tatcaaactg gagaaaccta 300

acgggcggtt atgacctcta gggaatcttt gtaaaggctt cgtagtgaat ccctggccat 360

tcaccttggg agtggataag ggtcttgcaa gcccgggcta gagagggaat cacgtcttgt 420

gggtaaagtg tgcaacc 437

<210> 41057
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B1

<400> 41057

cacaatctga aatgcgagat atcattcttg gcgctgaaat tgctccacca tcacagcaga 60

ggcaacagat tgctgaaatt gagaaacagt caagagagac tactcagtta actgctgtaa 120

ccacaaggac gacgaatgtg cacggagatg aactcattat cacaaccaca agtccatatg 180

agcaacaagc attcgcatcg aagactgatt ggcgtgtcag agccatctct gccacaaact 240

tgtatctacg tgtaaatcac atttatgtca attcttgtga tataaaggaa actggctaca 300

cttacattat gccaaagaac atattgaaga aattcatatg cat 343

<210> 41058
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B11

<400> 41058

cggacatcga cgaaagctat agccagctag ttacaagagc aaaaacacca tcatctgatc 60

cgcccgtctc aacgccacgc caatggccca gagcacgagg atggtggcgc tggccctggt 120

ggtcctcctg gtggcggcga cggcgtccgt gcccacggcc accgcgtacg gctgctacga 180

cgactgctac gagcggtgcg ccaacggcaa gaaggacgac cccgcctgca ccaagatgtg 240

caaccaggcg tgcggcagca ccgacaaggg cgcctccgtc ggcgcgccgg cttgatcgac 300

ccgagcttca tcggcgcgcg ggctcagctc gatatcagca tcatatacaa tcgctgctcc 360

gtcgctcacg tcagcccatg catgatctct cgacccggcc cattgaatct tctccttcta 420

ctatagtata tctttgttgc a 441

<210> 41059
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H6

<400> 41059

caaagatagc atagcagcag cactcacaat agcaaaaacc accatccgtc gtcgccaacc 60

gtagcaagaa catcaccacc gcccagcaat aatggcgcag agcatgagga ttgtggcgct 120

ggccctggtg gccctgctgg tggtggcggc ggcggcgccc gtggccaccg cgtacggctg 180

ctacgacgac tgctacgagc gctgcgccaa cggcaagaaa gaccccgcct gcaccaagat 240

gtgcaaccag gcgtgcggct ccacggatca gggcgccggt gccgccggcg ccgcgccggc 300

ttgatcgccc agcgcattca tcgcttcagc tcgatataat cgctgctccg tcagcaaccc 360

acatatgatt cgatcaattt tcctcctcta atttctcgac cccgtcgaat ttttttcctt 420

tctattcttc tactatacta ctactatctg tttgtcgcgt tgatttcttc tcata 475

<210> 41060
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-027-Q1-K1-G11

<400> 41060

cttcaggctg ccatagacat gtttagttct tatagggaaa gggactattg gtcggtgctg 60

gaacacccac ctaaggattt ggagattgca atagtgcaag cagagcacag tgatcgatgg 120

gtccctgatg acgttcaaag gctaaaagca ttagccggga gagagtccaa gcctgatgta 180

ggaaaagtgt cacttcacgt tctccctaac tctggccact gggttcatgt ggacaatccg 240

aaagggctac tcgagatcat ggtacctaac tttctatcag cagttcaaaa ttgagtggta 300

ccttcaatca gaaccttcat ttattgtgac atattgagtt tgacaaccca tgggataacg 360

tttcctctct catattgntg cccaacaaga attctttgct tcttttctga ggaaatagtg 420

caccttctg ttaataatcg 440

<210> 41061
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G12

<400> 41061

cacaaccact gtgggtactg ccaactggtt agggctcgtt cggttagctc tcaatccatg 60

tggattgagt gagattggat gagtttgaat cccaaacaaa ttaaacttaa ttttttccaa 120

tcccatctaa tccatgtgta ttgggaataa ccgaacaagg ctttactgtt ttaaaaaaaa 180

tagataaaat caataaataa aataaataat actgatatta taagtaacaa tttaatatac 240

tattggtcat cagttttaac atggtcactt actctgtatg tatttaaaag gggtgccctt 300

ttaaaggacc caagctttct tacgcttgtt tgcaacttct tagctttt 348

<210> 41062
<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-027-Q1-K1-G2

<400> 41062

gattggaaca gctaccgata tattcaggag tcttataaca agtttggata cagagggccg 60

ctaccttctg ttgaatgcaa tcgctaacca actgcgctat ccaaatagcc atacacacta 120

ctactccttc atcactctgt atctattttc cgaggctacc caggaaatta cccaggagca 180

aatcacaagg gttcttctgg agcgtctcat agtgaaccgc ccccatcctt gggggttact 240

tattactttc attgaattga taaagaatcc gcgttacaac ttttggagcc ggtcttttac 300

acactgtgca cctgagatag agaaactgtt cgagtcggtg gcaaggtcat gtggcgcana 360

agttgtggac gaaggaatca gcgtgcanga tggcagccac taaagccatc tgctttgntc 420

aagtgttgtt tttgtgctat ttcttctttg gcactggaaa ttttct 466

<210> 41063
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G3

<400> 41063

cggacgcgtg ggctggcgtt ggccacggag ccccacaacg acgagctcat gaagaggact 60

cccgtcggaa ggaaaggcaa ctgcgatcag caacaccatg tggaggaaca tcatggggca 120

ggccctctac cagttcctcg tcatctggta cctgcagtct agggggaaac ggctcttctg 180

gatcgacgag ggcgccgtcg acgccgacct ggtcctgaac acggtcatct tcaactgctt 240

cgtgttctgc caggttttca acgaggtgaa ctcgagggag atggagaggg tgaacgtgtt 300

ccgaggcatc ctggacaaca acgtgttcgt catggtcctc ggcagcaccg tcgagttcca 360

gttcgtgatc gtgcagtgcc tgcgtagctt cgccaacacg 400

<210> 41064
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G4

<400> 41064

cgagtctcga ccaacccata cgcacctacc ctccgccacc gttccccccc tctgcatctc 60

gcccgccgtt ctcgtccttg tagatctcct cgcacctcgc ccattcgctt caccaagggt 120

ttaagaccgg cggcgatggc ggcgaagctg gcgcagctgc gcacacaggt aacgcgtgcg 180

gcggagttcg cctcgaagca cggctgctcc tactacaagg aggtaatgga gaagaacaag 240

cagtacgtcg ttcagccccc caccgtcgag aagtgccagg agctctccaa gcagctcttt 300

tacacccgcc tcgcaagcct accaggtcgc tatgagtcat tctggaagga gcttgattgt 360

gtcaagcagg tatggaagaa caggaaggac ctcacggttg aggaccttgg cattgccagt 420

ttggttggag ttgagctcta tgcatgggtc tgcgt 455

<210> 41065
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G5

<400> 41065

cggacgcgtg gggacgaatc gtaaagattt gcttgatgaa gctttattga gacctggacg 60

attggaagta cacatggagt taaacctgcc tgatgaaaat ggtcgtttgc aaatccttca 120

aattcataca ataagatga gggagatttc ttccgtgtct ccagatttaa atctatgagc 180

tcta 184

<210> 41066
<211> 340
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G7

<400> 41066

cacacgctga gctactgatc atggcgctga atgcggggga tgacatgagt gacgtggacc 60

gcttaaaata cgcatcgggt ggcaccgctc ttattagagc acgacgctgt gcctgctcaa 120

tgagtgccct ctctggagct gggggaatgg tctacatggt gtacagaact gtcaaaggaa 180

actggcttca caagcaacac actgacccgt cacagaggca tcatgtgttc aagaaacgct 240

atgcgtatcc tgttgtgctt tgctagaaac gatttgggtc atgactacct cgttttggca 300

tcaaaagcgt tggtttacac acacaagccc atgttatgca 340

<210> 41067
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G9

<400> 41067

gtcccacaca cacaaaagca aaaagcatca tcacaataat ggcccgcgcg tgtgtgttcc 60

tcgtggtgct ccttctggcc ggcgtcgcgg tggcgccgct tgcgggggct gcgcgtgtgg 120

atgtcgtgga gggcaggtcc atggcgtccg tcgacgcgcc tgaagcggcg gctgacgcgc 180

ccgctcccgg tcccgactcc gcctgatccc cggactcgcc gtcggaggcg ccctacagca 240

gcagctcata cgactagccg cgcacaacgc agttcttgtc atgatctatc tagcagataa 300

aaagatcata tgtctcgttt gattctctgg aataactaat agtatatatg ctgcgcccgg 360

atgatatagt aatatgtgca tcaaatgcgt gcggcaaacg catggaatgt gc 412

<210> 41068
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-027-Q1-K1-H1

<400> 41068

cgaacaaagt acaggtccat ttctagccta tcgagctcct caggtagtaa aaccctacct 60

acacctcgtg ccgcctccgt cgccggctcg cctccccatc gacgcgcagg cagccctgcg 120

tttgctcccc gtcggtcggg aaaggggcgc gccggcgctg cctccagcaa tcaactcgcc 180

gcatccaatc acggcgcctc cctcctcgat tggctcctcg gtggttggtt gttataggca 240

ggcgggaagg atgttctcgc tgagccagat cgagcacgac ctcccgatgc cgccgcacct 300

gctgangccg ccccttcccg acgccatcaa ggccgagctc gagaggctct tcttggacaa 360

ggtaatcaca aaacttgggc tgtgcgtgtc tgtctatgat a 401

<210> 41069
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H11

<400> 41069

cggacgcgtg ggtggcagcg acaactgcgc atcggcgccg tcaccggacg tcagatctcc 60

ggtgggggtt tgatggcgat gagcacctgt cacgtactct aaggccactt tctctcatta 120

aggtagtact gagttcattg catgactatg acttctgaag atggagacat tttggctctt 180

gtgtctgagc caagcctaaa ggaagagcaa cttgaggctt ctgaatctga tgctacgtct 240

tctgcaatta tgaaagccat tgaatcaaat aagaatggag ttgaatgttc accatgcaga 300

agcttgtctg ggcagattga tacttcattc atac 334

<210> 41070
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H12

<400> 41070

atttgaaaca gttaagaatt catatataag agtgcatata tatatatata attctgccaa 60

gacaaaggta atggagtcgt cacgcatgtt ccagccggcc atcatcctgc ttctcctgct 120

cattgtgacc accgatgtgg cgcaggcggc gagggaatgc gagaaggaca gcgagcgatt 180

ccttggggca tgcatggcgt cggacaactg cgccaacgtg tgccgcggtg agggcttctc 240

cggcggcagg tgcagcacct tccgtcgtcg ctgcatctgc actaagccgt gctaaattaa 300

cctactcccg gcagttcgat ggtggacgtt tattctattt attggcttac ttgatttttt 360

ttcccctaac aataagaaaa cgcacgtgct tgcatgtacc gtgtgttgga tatgctttt 419

<210> 41071
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H3

<400> 41071

agaagcccag cagcaagggc gcaagcgcaa ctgatcccgc acacgggtga tgttccacat 60

acatgcctat aggccactca cctcaccacg cagcgttacc ggccgtacta ctatatctac 120

atacgaccgt gggacaacgt agaccggagc tcgatcggcg cagttgccgc atgggcgtgg 180

ctgtcaaaga tcctttgcta ctttcttgat ttgtgcttgc gttgggttcg gtgatccact 240

ttctttttat gtgattatta atcttggttt cagatgcatg tacgcatgta tgtgccggca 300

ccatatggtc ttgtgttaag attattcatg gattccaatc tctagtgtat ggtcgattgg 360

tttgtgagtg catgttgtac tcataccaac ttctgtcttt acatcagcat ttattacgaa 420

atagcaatgt gacctatcca aatta 445

<210> 41072
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H5

<400> 41072

cctccacccc ggaggccatt agcctgctct gcactgccaa ggtcccatgc accggcgtca 60

ccatggatga cgtcaacgtc gagtatagtg gcaccaacaa caagaccatg gctatatgca 120

cgaacgccaa gggcagcacc aagggttgcc tcaaggagct tgcatgcttc tagaccctca 180

gtcgactgac ccatctctct agttataatt tttctctcgt ccttgaattg tccattagtt 240

gctatccatt tgtaacgcac aacagtaaaa tgatagacat ccaacagcta tattatgttc 300

gacggtgtaa caccctgaat ttgagggtat aaaaaaaaaa gataataata aacaaagaaa 360

aaacaaaaat tagaactaaa ataaaataaa tatgatatac gatccattga aagcagaatc 420

aattcattc 429

<210> 41073
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G10

<400> 41073

gggcaaacag ctgaagggac ctacaactac acctccaccc aacttttaga tcttactcaa 60

gtaggaaata gagatgagtt tctcaacata gaacatgaac aagatgaagt ggaagaaacc 120

ttgccggcac atgaagaaga tgatgtccat gttgttgagg caggagatgc aacaggttta 180

aggcatgatc cagtgccgca gagaacgact actgctacaa gagggaacaa tgaagaaaca 240

aggacaaaga ggcataaaaa gggtgataac ctagaaggaa taatgggaag atacattgac 300

atgagaatga agcaagctga ggaagaagcc acacaactag caaaagagag ggaggaaaag 360

gaagtgagtc aagctgcaga cttctcaatc aagaagtgca tatccattat tggtacaatg 420

gaagttacaa aggaggaaaa agcgaaag 448

<210> 41074
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E7

<400> 41074

ctgatactga agttggaaac aatggactcc agcatctatc tggtcttcgt aatctgcaaa 60

gtattaatct ctcatttact ttggtcacgg acattggtgt gaagaagatc tctgtgttga 120

attcgctgaa gtcagttaac cttgacaatc gccaaattac tgatgttggc ctggcagcac 180

ttataagtct cactaggctg actcatcttg acctttttgg agcttgcata actgacaatg 240

gcacaaattg cttcagatat tttaagaatc ttgtttctct tgaagtctgt ggtgggttcg 300

ttactgatgc tggagtgaag aacatcaagg atctgaaggc cctgacgttg ctgaatcttt 360

ctcaaaatgc taatctgaca gacaaaacct tggagctgat ctctggcctg actgctttga 420

tcaacttgaa cgtgtcaaac tcacgggtgt ccaatgct 458

<210> 41075
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E8

<400> 41075

gataatctga cgctccaaac aatgcactgc attagctatc agggcttcag attctgcaaa 60

ggctaaatct gtcatatggt ctggacactg gcattcgtgt gaacaagatc tatgcgaaga 120

gtccaatgaa aacagctaac ctcgacaatc gacagattcc tgaccatcta ctcgatgtac 180

ttataatcta tacctaggcg tgctcatcgt gacctttacg gagcctgcat acctacacca 240

tggcaccaat tgctatagat actataagaa tatcggagct aatgcaatct gaagagagtt 300

acgaactgac gctggagtga agaccattac ggatctgaat gccctgacgt ttctgaatgt 360

aagtgaaact gcttacctgt cagaccttac ctatgatatc cacattg 407

<210> 41076
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E9

<400> 41076

acgagacgag gcgacgcgag tcgcgaggag tcgaggagga tcggggctca ggcaagatga 60

acaggaagcc aggagactgg gactgcaggg cgtgccagca cctcaacttc agccgccgag 120

acatatgcca gcgctgtagc gagccacgtg gagttgctga tcgtggcagt ggcggcggcg 180

gaggaggagg aggaggcgac tacgccagct tcggtggccg cggtggctcc tacttcggcg 240

gcggctttgg cgctgctggc tctgacgtcc gccctggtga ctggtactgc tcctgcggcg 300

cgcacaactt cgccagccgc tccagctgct tcaagtgctc cgcctacaag gaggaggccg 360

ctgtgaacag tggcgctggc ggctttgacg gcgacatgtc acgctcacgg cgctacggct 420

tctgcagcgg tgctgctggt 440

<210> 41077
<211> 465

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F1

<400> 41077

gctggtacga gaccgtctct gcggctgtag cctcaagatt ccctggtaag gctgttggtg 60

taaatctgcc tgcgggatca gctgctgcgg cagctgctcc tgcggatgag gctgaggatg 120

atgatgacct tgatcttttt ggtgatgaaa ctgaggagga caagaaggca gctgatgagc 180

gtgccggcgc tgccaaggcc tcttctaaaa agaaagaaag tggtaaatcc tgcgtcctta 240

tggatgtcaa accatgggac gatgagactg atatgaagaa gctggaggag gctgtccgca 300

gtgtccagat ggagggtctg acttggggag catcaaagct tgtgcctgtt ggatacggca 360

tcaagaagat gactatcatg ttgacaattg tcgacgatct tgtgtccatc gacactctaa 420

ttgaggacca ccttacgcaa gagcccatca atgagtacgt acaga 465

<210> 41078
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F10

<400> 41078

cttccggccg aattgcgagc gagcgttcct ctccgtccgc ttccgccgtt tgcccgtcga 60

tcagttgttg gctgccggcc gggtactacc gcctgcacga gcagcggcta gccacagccc 120

acagacagac gacgtcaggt cttggcggtg tacaagcaga cagagctcgc tcggtcgcca 180

tgtctttcac cggcacgcag gacaagtgca aagcctgcga caagacggtc cacttcatcg 240

acctgctcac cgccgacggc gtctcgtacc acaagacctg cttcaaatgc agccactgca 300

agggcgtcct ctcgattagc agctactctt ccatggacgg cgttctgtac tgcaagacgc 360

actttgaaca gctcttcaag gagacggtga acttctccaa gaaattccaa ggtggaggtg 420

gagcatcttc aaacaagaac gacccg 446

<210> 41079
<211> 119
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F12

<400> 41079

ccagttttag ttaatgtgct ccatgcttga cgtttaaaaa aaaaaaaaaa aaaaaaacaa 60

ggagaaaaaa aaaaaacaaa atggggaaca caaaaataaa aaaaaaaaaa atataatat 119

<210> 41080
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F3

<400> 41080

cgcgacgact gacaaggcga ggggagcagt cggcgggcga tggtcggcgg cggcgcacat 60

ggcggcacca cctacaaagg ctacaccatc ccacacaaca agcgctggca caccgtcgcc 120

ggcaagggcc tgtgcgctgt gatgtggttc tgggtcttct acagggctaa gcacgatggt 180

gctacgctct tgggttagcg tcatccttgg gatgggcatg atgaccactc ttatggtcat 240

ggacatggga atgaggcatc gtgacattaa gatgcctact ctcggcggac ggtgatttga 300

tgctttgcat gtcacaacaa ctaaagattg agttaataaa ttgtaccacc cttcatggta 360

ctcatggtgt atgtactcat gttgtatgca actggtttag cacaaactgg ggtcgttac 419

<210> 41081
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F4

<400> 41081

ggttgttcct ctgagcgacg gcgagtcggc gaccgaggtg gggttccgag cgccccagcc 60

cgtggtggaa ttcgtttggt ctggttgttg cgggggacca cagaagcatt agctgggtga 120

actctttcaa aaggggcagg tgcgctagtt tgaatggctg ctacaaagct tcaggccttt 180

tggaaccacc ctgctggccc caaaaccatt catttctggg cgccaacatt caaatggggt 240

atcagcattg ccaacatagc cgactttgca aagccgcctg aaaagatatc ttaccctcag 300

caagttgctg ttgcatgcac tggaatcatt tggtcaaggt acagcttggt tatcacaccg 360

aaaaactgga acctttcag tgttaacgtt gcaatggcgg gtacaggcct gtatcagctt 420

tcacggtaga ttaggcaaga ttacttgtct tgtgagaagg a 461

<210> 41082
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-027-Q1-K1-F5

<400> 41082

atcatcatct tctccgatcc atcaacaatc gccgagagcg atcgagagat aaataaagat 60

gaagaaagtg gcatcatcgt cagccgttct cttcgtgcta gccctgacgc tagtttgtgc 120

cccgctgata gcagaggcaa agaagaagag agtcgccgcc gccgccgccg aggagaagaa 180

ggtgcaggac aacttctgct cgacgctgtg cgagggcagg aaggggatgg acctggtggt 240

gtgcaaggag tcctgcgacc tctcacagcg ctccaacctg gtgctgtacg gccggatcca 300

gtgcaagggc aagtgcaccg agcagaaggg catcaccgcg ccgcagatga aggtgtgcca 360

agaggcgtgc gacaaggact acgtggtcaa ggcggctgan gtcaccaagg cctgcaacac 420

cacctgcgcc aaggagaagc agcctctgct cagcgagaac 460

<210> 41083
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F6

<400> 41083

gcgagtacgc cctcgtcacc gagcgcggag attcgctctc caggctcgtc ggcgtcgctg 60

tcgcggccga tgctgcctcc cgcgaggttc ccgtctctgt ctcggagtac atgcgaccga 120

cgccgcgctc agcctccgcc gccttcgact ttgaggaagc agcaaccttc cttgccgatg 180

agggtctgga ttacgcccct ctcgtatcag atgatggtga ggttgttgat ctaatcaccg 240

ccaaggacgt ggagcgcatc cggagctatc ccaagctggg caagccgtct cttggagcca 300

acgggaagtt tgtagttgcg gcttccattg ggactcgtga agatgacaag ggaagactgg 360

agcaactagt taaggcgggg gcaaatgcta tcgtgattga tagttcacag gggaactcca 420

tataccagct cgatatgata aagtttgcga agaagatgta 460

<210> 41084
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F7

<400> 41084

agtgatttga aataattggg aataaatagt tcgtgaatcc ctgaagcgtg catatatata 60

ttcctgccaa gataaaggta atggagtcgt cacgcaggtt ccagccggcc gtcatcctgc 120

ttctcctgct cattgtgtcc accgatatgg cacaggcaag ggaatgcgag aagtacagtg 180

agcgatttgt tggggcatgc atgatcgcag acaactgcgc caatgtgtgc cgcggtgagg 240

gcttcttggc cggcaggtgc agcacctttc gccgcctctg catctgcact aggcagtgct 300

aaacaagatc gctcgatcgc tcgtcatgca tcgacaacct attcttaata acgttcatta 360

tctcgttctt attcatgact aatgtcatgt atgttctggt gactgtcatg tatatactga 420

tgactg 426

<210> 41085
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F8

<400> 41085

ctcacgcgtc cgcccacgcg tacggtcacg cgttcgacta cgcacccgct caggtcggag 60

ccgacgcgga cggtgtcgag ctggaatgta gacctacgaa gctgcagtcg tacgccatcg 120

atatgagcac cgtgtcgaga gctgttacat gagcctctac gtggtgtatc caagcagacg 180

acgcgacggg tggacatatc tacgatgcac tgttacacgg tgacctctag tactgcttga 240

acgttagtca gtgcttcctg aatccaatga gctactacgt gttaccattt ttggactgcg 300

tctttcggaa gcacgtcaag cgcgcttgat acgacctcaa gttcgggatc accatgtact 360

agggcagg 368

<210> 41086
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F9

<400> 41086

cgaaagaagt cgcctaattc tttcgatcga attaggcgcc ttcttcgtcc cacgctccgt 60

ctttatttgt aatctgaagc ttacaggaac atttgagtgg atcatggacg gattggtagg 120

cctcttgaaa gtccgggtgg tgaggggcat caaccttgcc taccgcgacg caagaggcag 180

cgatccgtat gtcgtcctac gacttggcaa gaagaaactt aagacgagcg tgaagaagag 240

atctgtgaac cccatctggc acgaggagct aactctgacc gtcacagatc ccagcctagc 300

tctgaagctg gaagtgttcg acaaggacac gttcagcaag gacgacccga tgggggacgc 360

ggagaacgac g 371

<210> 41087
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-027-Q1-K1-G1

<400> 41087

gccaccgaca tcgcctctta acccgacaag ccccattgcc caggagaacc ccgtgccggg 60

gagcgagccg cgcgcattcc ccgtcccgtg ccaccggacc aggggaagga ggacacacat 120

gtcgtcgtct ctctctccag cggcggcagc cgcgcccctg gatctggacg gcaactccgt 180

cgcgccctc accatctgca tgattggcgc cggcggcttc atcggctccc acctctgcga 240

gaagctcatg gccgagacgc gccatgtcgt cctcgccgtc gacgtatact gcgataagat 300

ccgncacctc gtcgaccccg cgccgtcgca cctcgcggtg cgcatctcct tccaccgcct 360

caacatcaag aatgactcca ggctcgaggg cctcatcaag atggccgatc tgaccatcaa 420

cctggcggct atctgcacgc cggcggacta caacacgcg 459

<210> 41088
<211> 467

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E6

<400> 41088

aatagggtct tcgttccttt gatactctca cttcctacca aagtattctc attgactgcg 60

aaagatcagc ttaaggttga agttaccaca gtgtttggat ctgcagcacc tttactcaaa 120

gtgaatcttg tgcaactgtt gggaactgac tctaaagtca tcaccaatgg gaacagggag 180

cttcaatatg accttgacaa aaatgtccat tacttggaca ttgctccatt gcaaatagat 240

gttgggaaat actcggtagt tcttgagatt tcacttcatg aacaatagcg tgagactgtt 300

tatgctactg gagggaggaa cactgaaagt gtatttgtca caggactgat caaagttgat 360

aaggcacaga taggaatatg cgacaatgat gctgggaccg tggagtctgt ccaaaagtta 420

gatcttgtga aagatacaca ggtgtctctt tctgcaaacc acctaca 467

<210> 41089
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D3

<400> 41089

gcgtctcacc cctgaggccg cgcagagcca ctgcttgcgt ctctgtctct ctgtctgctc 60

gcttatctcc ttctgcgact cgtaagaggg tgaggtcttg cttgcctcgc ggaatggcgg 120

cggccggggc atggctggcc cgtgcgactg cgacggcgga gctgggtttc gtcctggcgg 180

tggcgtcagc tgaggctgca tcgggagacg cggagatcgt tttcctcaag gccgtcgagg 240

tcaaaggcgc aatgtgcttg cacggcagct caccggtgta ccatttatct cgcggctccg 300

gatctggcgc caataactgg gtcgtccaca tggaaggagg agggtggtgc aggaatcctg 360

atgagtgtgc ggtacgcaag ggcaacttta ggggctgcta caaattcatg aagccactct 420

cgatttaggg atattatgcg gcatccaata atccaattct gatttctac 469

<210> 41090
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D4

<400> 41090

tgaagagcta tacaccagaa atggttgacg ttctcattga cagtgtgagg aatccagcat 60

tcctcgattg ggaggtcaaa gagcagctcc agaacataaa atctgaaata gctgatgcgt 120

ctgctaatcc tcaaggtcta cttctggagg cccttcattc ggctggatat tccggggcac 180

tggcaaaacc tttgatggct tcagaatctg ctgtaaaccg gttggatgtt agcagcttgg 240

aggaatttgt tgctgaacat tacactgctc ccaggatggt tcttgcagca tcaggagttg 300

atcatgatgc gctgatttca gttgtagaac cacttctgtc tgaccttccg tgcgtgaaac 360

gtcctgaaga gccaaaatct gtgtacgtgg gaggagacta tcgctgccaa gcagattctt 420

caaacacaca catcgcactt gcttt 445

<210> 41091
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D5

<400> 41091

cttgtcgtcg cacagcctcg cggtgctcgc gggcggcgcg ctcctgggcc tccttctcgc 60

ggcgctggcc gtggccacca cggacgccag gtcccctccg cgcgggcgga ggcggcgcgt 120

gccgtggctc gccgcggggt tcgtgatgag cgtgctgtgg gcgtacaccc tggcgcgcga 180

gctggtggcg ctcctggtgg ccatcgggta cgtggtcggg atcaagccga gcgtgctggg 240

cgtgacggtg ctggcgtggg gcgactccct gggcgacctg gtgtcgaacg tggcgatggc 300

ggtgcacggc gggcccggcg gcgcgcagac cgtcgtgtcc gggtgctacg cgggcccgct 360

gttcaacacg gtggtgggtc tgggcctgtc gctggcgctg gcggctggcg cgc 413

<210> 41092
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D6

<400> 41092

cgcattactt gcacgtacga gctcagaagg aaggcagagg ctaaagcagc catggcgaac 60

tcgtcttccg gccttgcggt gaacgacgag tgcaaggtga agttccggga gctgaagtct 120

cggcggagct tccggttcat cgtgttcagg atctgactga cacggacatg gatatcaagg 180

tggaccgtct cggtggaccg aaccatggct acggcgactt caccgacagc ctcccggcca 240

acgagtgccg ctactcgatc tacgacctcg acttcaccac catcgagaac tgccagaaga 300

gcaagatctt cttattctcc tggtccagtg acactgtacg caccatgagc aagatgctgt 360

acgccagctc caaggacagg ttcatgaggg agctggactg cattcagtgc gagatccatg 420

acaacgaccc catcgagatg ag 442

<210> 41093
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D7

<400> 41093

ggaaagctga ggtcgaatct cctcggcaca aagtttgcaa tatatgatac ccagccccca 60

tgcaatgcag cagaacccgg gaaaacaagc cgtcggttct actcccggaa ggtgtcgcca 120

aaggtctcct ccagcaccta caacatagcg caggtttcat atgagctgaa tgtcttgggt 180

actcggggcc ctaggcggat gaactgtgtt atgcactcca tccctacctc gtgccttgag 240

gctggtggca ctgttcccag ccagctggac agcatccttg ctcgctctac tgatgagtca 300

tttggcagca tttccttctc caagtcatct gttgtggacc ggtctatgcg tttcagcagc 360

tcaagattct ccgacatctc aatgagcagc agccgcagga ttggagacac ggcatcggga 420

gacaatgatg agtgcaagga gaggccattg at 452

<210> 41094
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D8

<400> 41094

agaagaccac acagacttct agatttattc tcaaagcttg caagaagagc tgatgcagag 60

gatccaatag aaaaggctct tcttggtctt ccaacggatg gccttcgcgt gcttcttgaa 120

tacgtccgtg aatggaatac gaagcccaag ttctgtcatg ttgcacagtt tgtgcttttt 180

cggttattga ggagtttctc tcccactgat atcctggaga tcaagggcat cagtgagctc 240

cttgagggcc ttattccgta ttcgcagagg catttcagcc gagtcgatag actagtccga 300

agcacgtttc tgttggacta tacgctgatg cgaatgtccg tggtagatcc agatgtagat 360

gcgggaacaa tcaaagatga aatgaacggt tcgtctgcgg agaacggtga acttgcaga 419

<210> 41095
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D9

<400> 41095

gcttcccaga gacccagcca tggcgatctc ccagatctca cgcatattcc tggccatcct 60

tctcctggcc gccgccttcg ccgccgcccc agctgcgctt gcggacggcg acgacgtggt 120

ggcccttacc gaatccacgt tcgagaagga ggtcggaaag gaccgcggcg ccctcgtcga 180

gttctacgcc ccctggtgtg gtcactgcaa gaagcttgct cctgagtatg aaagacttgg 240

tgcaagtttt aagaaagcta aatctgtctt gattgctaag gttgattgtg atgagcacaa 300

gagtttgtgc agcaagtatg gagtttccgg gtatccaaca atccaatggt tcccgaaagg 360

atccttggag cccaaaaagt atgaaagaca acgcactgca gaagcccttg ctgaatttct 420

caatact 427

<210> 41096
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E1

<400> 41096

gaactttgct gttaagttcc cagcttgctc aatcgccgcg aagcaccata ttgaccagag 60

cacaacaatt cttgacgtgc aaggagtggg gatgaagcaa ttcagtaaag ctgcaaggga 120

gctcattggc atgcttcaga agattgatgg tgacaattat ccagagaccc tgtgccgcat 180

gttcatcatc aatgcaggcc agggattccg gcttctatgg ggcaccgtca agagctttct 240

tgacccaaag accactgcaa agattcatgt tctgggtaac aagtatcaga gcaagcttct 300

cgaggtgatt gatgctagtg agttgccaga aatttttggt ggaacctgcc gatgtgaagg 360

tggttgcatg aaggctgaca aaggcccttg gaaggacccc gaaatcatga agatggttca 420

aagtggtgat gggaggtgtg gatcactcgg ta 452

<210> 41097
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-027-Q1-K1-E11

<400> 41097

cccacgcgtc cggtcgtgtt ttccgctgtg taagcatctc caacaaacac cagacgtcgt 60

atagcggcag tccagtccac ctcctccgaa gccggcggtc gccgccggcc atcgccgcgg 120

aggatatggc gtccctccgt gtggtgtcgg tgctagtgtt ggtggcaatg gcggcgagcg 180

cgggcggcgt cgcggcgcgg cctctggtag ggggaggcgg ngcgtgggag aacagggcgc 240

cgctgcagac gtcgcgcccc ttcaacatcg cgcaccgggg ctccaacggg gagctccccg 300

aggagacggc ggcggcctac gcgcgcgcca tcgacgaggg cgcggacttc atcgaggcgg 360

acatcgaggc caccaaggac agccacctcg tctgcttcca cgacaccacg c 411

<210> 41098
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E12

<400> 41098

gtgcacaaac aatgcgatga gagccttgtt cctcctggtc ctcttctgca tcgtgcatgg 60

tgagaaggaa gagtcaaagg gcatcgatgc gaaagcgtcc gggcctggtg ggtccttcga 120

catcaccaag ttgggcgcct ccggcaatgg caagacagac agcacgaagg ctgtgcagga 180

ggcatgggca tcggcgtgcg gcggcactgg gaagcagaca atcctcatac ccaagggtga 240

cttccttgtc ggacaactca acttcacagg cccttgcaag ggcgacgtga ccatccaggt 300

ggatggcaat ctgctggcga ccacggacct aagccagtac aaggaccatg gtaattggat 360

cgagattcta cgtgtggata acctggtcat caccggcaag ggaaaccttg acgggcaggg 420

cccagccgtg tggagcaaga ac 442

<210> 41099
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E2

<400> 41099

cggacgcgtg ggtgagaagg ttggcaggat tttgatttac ctttgtgagg ggaagaaggt 60

gaagatggca cactcattat accgtgcagt gaaggaaaaa aagattccag tcccaaaact 120

agctttggat ttccttgttg gtgctttggc aaggaatgat gagaccattg gtactgctct 180

ggagctgctg gaagagtatc aaggggagtc gcttaagcat gcaggcaagt cctttgccac 240

agttgtacat gctttgtgta cggtaaacaa aatggacgat gcaaataatt cgctgatgag 300

gatggtgcag cttgaagagt acaaagggga atctcttaag aatgcaggca agacatttgc 360

cacagttata catggtttgt gtaagaaaaa gaaattggag gatgcaaaag cctctgtgat 420

gaggatggta aat 433

<210> 41100
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E3

<400> 41100

ggcgacgagt cggagacggc ggtgcgggcg tctgaggagt tgcgggactg gtccgacatg 60

gcgccagtgt gtcttgccga agcgttctcg cggctggcgc tggaggacct gtggcgcggc 120

gccatgccgt gctgtcgctc ctggcgggac gccgcgcgct cgcgcccggg actcttcgcg 180

gtgcttgacc tcgagcccgg gtttgctgag ttcacacctg gcgccgaggc gacagcgtgg 240

tggacgccct cctttcagcg ccgtgatgac gccatggtgc gctttgacag cacgttcgtc 300

gaggtggagc tgcgtgagat ccatgtacac cactgtttcg acgactcgct cggcttcggc 360

ggcgagaggt ctgctagact tagtatcctt tcggtcaaaa ctagcctggc agtaaccgat 420

cgatcaatgc ttattgtcgg agcatgct 448

<210> 41101
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E4

<400> 41101

agcaggtgtt ccgtgagcac cacgacggcg gcggcggcgg cgacgacggc ggcaacccgt 60

tcgcggcgca gctgatggag gtgatggagc tgctgcacgg caacctggag gccaagtcgc 120

ggctgtacaa ggacccgtcg ctgagcaaca tcttcctgat gaacaacggg cggtacatgc 180

tgcagaagat ccgcgggtcg gcggagacca acgcgatgct gggcgaggcg tgggcgcgga 240

agcagtcgac caacctgcgg cagtaccaca agaactacca gcgggacgcg tggagccgcg 300

tgctggggct gctccgcgac gacggcgtgc tgacggtgaa gggccacgtg cagaagccgg 360

tgctcaagga gcggttcaag cagttcaacg ccggcatgga cgagatccac cggacgcagg 420

gcgcatgggt cgtcagcgac gagcagcttc agtcggagc 459

<210> 41102
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E5

<400> 41102

acaacacata caggaaaagc aagcaagaat catcggaata atggctcgtg catgtgtgtt 60

cctcgtcgtg ctcctcctgg ccggcatcgc ggtggcaccg ttcgcgggcg ccgcacgcgt 120

ggacgtcgtg gagggtaggt ccatggcatc cgccgatgca ccggaggcgg cggccgatgc 180

tcccgctcct agccccgact ccgcctcatc cccagactca tcgtcagagg cgccctccag 240

cagcagctcc tccgactaga cgcaaaaacc tcttcattct ctggaataac taacagtata 300

tacgttgcac cctgatgata tagaaacatg tacgtgcatc agtgtatgga atgcgagtgg 360

caaacacatg gaatgtgctt gcctaattat tgtttatttc tttatttatt atatgtctct 420

ctcggttgat tgttattttt cttaatgcat gtaatataat ttggtatacc 470

<210> 41103
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D2

<400> 41103

cggacgcgtg ggcccgaaac tgaaggactt caaatttaag cttggcagta aacggcgctt 60

cctcattttc cccatcaaag gatcagaaag aaggggccta gaaagtgttg aggccaagaa 120

gaaaaatgga cagtatgaca tgaagctact agctgttgac ataccaatgg catcaagtac 180

tgaccagtgg ctgttcctcg tcagtgatga acaagagtac aacgtgggcg gaggcttgat 240

atctgagctg agagacccga tcgtaaaagc tattgccgct gataaggagt ttgactatct 300

tgaagaggaa gcggaagcat tgatgcgcca ggaggaaagg ctgcgccagg cgggtgaaga 360

gcgtatgcgg cgcgaggaag ctgatagcct ggataaagct acgtgacacg acgtactgta 420

ctgactt 427

<210> 41104
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B9

<400> 41104

tcttaagaag acgatgttcg gcgtccgcat caaggcgtac gaggacgccg cctgcgtgct 60

caccgtctcc aagatccact acgagaatat caagatggag gactcagcca accccatctt 120

catcgacatg aagtactgcc ccaacaagtt gtgtactgcc aacggcgcct ccaaggtcac 180

cgtcaaggat gtcaccttca agaacatcac cggcacctac tccaccccgg aggccgttag 240

cctgctctgc actgccaagg tcccatgcac cggcgtcacc atggatgacg tcaacgtcga 300

gtatagcggc accaacaaca agaccatggc tatatgcacg aacgccaagg gcagcaccaa 360

gggttgcctc aaggagcttg catgcttcta gaccctccat cgactgaccc atctctctag 420

ttataattct tctctcgtcc ttgcattg 448

<210> 41105
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C1

<400> 41105

gctagtatgg tcccactagc ttgtgggtca ctactgccag gaggaacggc atatgatgaa 60

gtgcattcgg acatatactc atgagcatca tcacgtgctc gcgttggcct accatgtcca 120

actgatctgc catctggtct ataacgtgca tgattacaac gaggctcagt attggacagg 180

tatacgtatg ggctttcgga tccgactgga acacagcgct cagctattga caggtatgcg 240

ccatcactcg atggaacgaa cacatcacga tcgaggagct ccttgcctga gcagtacccg 300

ttcggacaac ctggatcttc cggtggcgga tggcctcatc actgatcgct ggaacttggt 360

ccttagattt gaccagcaga cgtgcaaccg atttcttgag tccggtggag cctaaaacct 420

atctacggtc taactttatg gatcctacta gtcgtttctt c 461

<210> 41106
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C10

<400> 41106

cccacgcgtc cgctcctctc ccgtgctcac cacctccccc attttcgccg ccccctccga 60

tctcgccgtt ctcgtctcct tccgttggat tagggctctt catctgttcg ccgcacttcg 120

tcagtcgccc atggcggatg aggaggtcac tgatccaaag gcgctcctag aggatcgttc 180

aaaggctaag tgtgtgtcgc agtggtatga ttatcagaaa tgtgttaaaa ggattgagga 240

cgatgagact gggcacaagc actgtaccgg tcagtacttt gattactgga aatgtgttga 300

caagaatgtt gcagagaaac tctttgagat gttaaaatga caaatttttc ctccatttat 360

ccacctaaag ttggtaataa ttgtaccact tgggaggcct atagactatt aaggcactta 420

atatttgtca gagaa 435

<210> 41107
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C11

<400> 41107

cgaacggtga gatgcgggta gaactgcaca cgacttggat cacgaggatg ctggaggacg 60

tggtggccgt agcgcttgac atgagggcct ccgatgcttg acggtagggc ctctcgcttg 120

aagagggcgg gcaggaccta cgtgcttgag taattcacgt gcactacatt aaccatccga 180

taatgtccag caggctttca tagcctcatc gccaaactgc atgttgacgg cagcacgtgt 240

aacattggcc tttgggacac tgttaggtca ggaacgttac aacatactga gaccactgag 300

ctatcgtcga actgatgtgt ttcttctggc tttctcactg atcagtattg ccatctttga 360

aaatgtttcg aagaattgga tacctgaact gaagcattat gcacctggtg tgccaattat 420

tctcgtaggg acaaagct 438

<210> 41108
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C5

<400> 41108

gagccaacag agcgcagaag ctgcacaact aggaggtaag agccaacaga gcaacgccca 60

ggcacacgcg acacgaacca ggcaaaccag ctgccgaggg aggaacccta gcggaacact 120

gtgcaggtga cggcggctcg ctaccggaga cgggggatac ggcggcatcg ccccctcgg 180

cccctcctac atccacggcg cggcggcgcc agcagccggc ctgcaggatt ccacgtcgtc 240

catggcgctt gtcgagatgt gtgggcagcc gtgcagcggt aaaacagcag ccgacacttg 300

ccttgctgtg gcgctgcact cctgctaacc tgacctcact gtccgaatca tcgatgagtc 360

atcccttcat ctcaggcgca acgatagcta caaagatatg gttgtggaga aaa 413

<210> 41109
<211> 457
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-027-Q1-K1-C6

<400> 41109

gttcgttcac gccacaggca aggcacagag gcttgtgagg gagagcgagg agcggaggag 60

gacatggtgc acgggacgct ggaggtgctg ctcgttgggg ccaagggcct cgagaacacc 120

gattacctct gtaacatgga tccgtatgca attctcaagt gccgttcaca ggagcagaag 180

agcagtattg caactggaaa aggaactacc cctgagtgga atgaaaactt tatcttcact 240

gtgtctgacc ggacaacaga cttggtaatc aagattatgg acagtgatac aggcacagca 300

gatgactttg ttggtgaagc aacgattcca ttggaagcag tgtatactga aaggagcatt 360

ccaccaacac tctataatgt tgtgaaaggt gaaaaatact gcggngaaat caaagttggt 420

ctcacattca ctcctgagga tactcggcag cggggtc 457

<210> 41110
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-027-Q1-K1-C7

<400> 41110

cggacgcgtg ggcggacgcg tgggggcgtc cgagggcgac aacaagagga tgatcacgct 60

gaggagctcc gacttagagg agttcgaggt ggaggaagcg gtggccatgg agtcgcagac 120

tctccgccac atgatcgagg acgactgcgc cgacaacggc atcccgctcc ccaacgtcaa 180

ctccaggatc ctctctaagg tcatcgagta ctgcaacagt cacgtccacg ccgccgccaa 240

acccgctgac tccgctgcct ccgagggcgg cgaggacctc aagagctggg acgcgaagtt 300

cgtcaaggtg gaccaggcta cgctcttcga cctcatcctg gctgccaact atctgaacat 360

caagggattg ctggacctga cctgccagac ggttgctgac atgatcaagg gcangactcc 420

cgaggagatc cgcatgacat tcagcatcaa gaacgact 458

<210> 41111
<211> 440
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C8

<400> 41111

cggacgcgtg ggcggacgcg tgggcgatga cgatgttcca gagcttgttc ctggagagac 60

ttttgaagaa gtagctcagg agacaaaagc ctgatcatag gctctaaata gtgaaatgtt 120

actgcaccaa tgctgtgagg tcatggtttt cgtgtgatgg cactcttctt cctcccctcc 180

taggccagcc ccagccactc tttgtgttcg ctgttggaaa cttttagttt ctccatctca 240

agcttttacc taaggttgtg catgttgaga tgccatggaa atccattttg ctgattattt 300

ggtttgtggt cggttcacaa cattacatgt gcaccaggtt ttgctgggtt atcactatat 360

aatgtttgtg tagtctagaa aaaaaaaaaa aaatacatga caataaatac tgtaattgct 420

ttacaactta gcttgagaat 440

<210> 41112
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C9

<400> 41112

ggcaaccagt gtcggtgaga agaatgtcct cattttgac cttggaggtg gtaccttcga 60

tgtctccctc cttacaattg aggaaggtat ctttgaagtc aaggccacag ctggcgacac 120

ccatcttggt ggtgaggact ttgacaacag gatggttaac cactttgtcc aggagttcaa 180

gagaaagaac aagaaggata tcactggcaa cccgagggct ctccggcggc tgaggacctc 240

ttgtgagagg gccaagagaa ctctgtcttc cactgcccag accaccattg agattgactc 300

gctgtacgag ggcattgact tctactccac catcacccgt gccaggtttg aggagctcaa 360

catggacctg ttcaggaagt gcatggagcc tgttgagaaa tgcctgaggg atgccaagat 420

ggacaagagc agcgttcatg atg 443

<210> 41113
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-027-Q1-K1-D1

<400> 41113

agctgaagct ggaagaagga caggacgtca cagcactcgc tctagaccaa gaaaacacca 60

cgcttctggt ttcgacagct gataagcagc taatagtcta cacgggtccg gctccaagta 120

ccccgtaggt caatccatta gctccccggt gcttggttgg aaaattgtaa tggagatcag 180

cgctagctat cttgacggcc caactgacag tgagctcgga gacgacagta cagataatgc 240

acgttaggcg acgggcttct cttgccgtga gcatggcgct gctgtacgta gaggctccaa 300

tggattgtgc tgtaatacaa gactgagact ggaacctgaa atgggcgaca tgtgcaccaa 360

aaggtgaaga gcccgtgcgc tgctggaaaa ctctnctgta ca 402

<210> 41114
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D10

<400> 41114

gacagggcag gcactcgtcg ttggcatcta cgacgagccg atgacgcctg ggcagtgcaa 60

catggtggtg gaaaggctgg gcgactacct gcttgaacag ggcatgtaac tactacgtac 120

cagctggaat gcatgtcgac gacgatggtt tcgagtttcg acttccaata atagtaacaa 180

caaagcaaag gccttcctcc cggcgtattt gctttggctc ttctcctcca cgccataaga 240

tatctagcaa ttggtcactc gccttaatta gttcgctttg cttttgaggt tgattcgacc 300

attttgctgt agcgtgaatt gcatgcatgg acatgcaacg ctccaatggc ccttggaatg 360

tggaattttt tttcccattt tctggatttt tcctataaaa aatgaactgg ttcttata 418

<210> 41115
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D11

<400> 41115

ctgagttcaa gtctggtgca gagaggaagg atgctgcgga gagcaccatg aatgcctaca 60

gagctgctca ggacattgct cttgcagatc tggctccaac ccaccccatc aggcttggcc 120

ttgctctcaa cttctcagtg ttctactacg agatcctgaa ctcccctgat cgcgcctgca 180

accttgcaaa acaggccttc gatgaggcga tctctgagct agacagcctg ggagaggagt 240

cctacaagga cagcactctg atcatgcagc tcctgcgcga caacttgacc ctatggactt 300

ccgacaccaa cgaggatggc ggcgacgaga tcaaggatgc tgctgccccg aaagaatctg 360

cggagggtca gtaagatgga ttcagtctca cgacctgctg ctgctgatgt tgaggagtga 420

ccagaaccag aaccgtcgtc 440

<210> 41116
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-027-Q1-K1-B8

<400> 41116

cccacacaca caaaagcaaa aagcatcatc acaataatgg cccgcgcgtg tgtgttcctc 60

gtggtgctcc tcctggccgc cgtcgcggtg gcgccgtttg cgggggctgc gcgtgtggat 120

gtcgtggagg gcaggtccat ggcgtccgcc gacgcgcctg aggcggcggc tgacgcgccc 180

gctcccggtc ccgactccgc ctcatccccg gactcgccgt cggaggcgcc ctccagcagc 240

agctcatccg actagccgcg cacaacgcag ttcttgtcat gatctatcta gcanataaaa 300

agatcatatg tctcgtttga ttctctggaa taactaatag tatatatgct gcgcccggat 360

gatatataaa tatgtgcatc aaatgcgtgc ggcaaacgca tggaatgtgc ttgcctagct 420

agctaattgt tgttntttt 439

<210> 41117
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A3

<400> 41117

ggaaagagtt ttttgtgatt ggtattcagt gggcttcaat atatcatcct gcactgtggt 60

gtgccttttc tctaatcttt tcgttgcttc ttgtaccaca agttttagca gtggtattca 120

aagatcggtt cacatataaa tctctatgcg catatggtgg gcagaggaca ctgttgaagt 180

ctctagttgg tggtttcatc tgttgttttg ttgaactcgc caggctggtt cttgtatggt 240

tattgctact gttatatgct atctatttag tttttatacc ttggttattc ggtcacccta 300

ttactgaaga tggtagcctg acttacatga cacataaagg ctggattctg aaaggaccca 360

gtagtagcaa cgaagtagtc catgctggga ttccagatgt catggtcatt ggtctacctc 420

acctttgctt tgtgttagta cccaccatt 449

<210> 41118
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A5

<400> 41118

gcacattgca cagccaaaaa aaaaacaaaa aacaaaaaaa aaataaaaac ataaagggaa 60

aaagaaaata aaaaaaatgg gaactgccaa aaaaaaaaac aacaaataaa aaaatatact 120

gctaaatttt gataatacac ttagcaattc taaataagac agattaacac cagaagaagc 180

aataatgatt gagctagtta cccttacagt tttcatggaa tataatagtc cttacgatac 240

ttgactaact tgtgcaatat tgaactctac tacgccaccc tattccaaac gattattagg 300

gaatatatca ctttgacatc cattgcatct c 331

<210> 41119
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A6

<400> 41119

cggacgcgtg ggtgcaggtg ctgtgattcc ttttggatcc atggaggacg ccttgaagaa 60

aagtggatca atcaaatcct acactaatct tctagagagg atcgaaacag ctcaaattga 120

aaatggtgaa cttgatagcc tatcctcgaa gcttcaagca actgtttcac ttctttctcc 180

atcggaagaa atcattgaat ctttgaagaa aacatttgat cagaatgttc gactaattgt 240

gagatctact gctaatgtgg aggatttggc tggaatgtct gctgctggac tctatgaatc 300

aattcctaat gtcagtctct ctgaccctag atcctttgga gctgcggttg gacaggtttg 360

ggcatcatta tacacaagga gagcaatcct tagccgtcga gcagccggtg tacctcagag 420

agacgcatag atggcggttc tcgtgcaaga aatgct 456

<210> 41120
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A9

<400> 41120

agctgttgtg ggtgctcaag atgggaaact gagaatctat tccatcagtg gtgatacact 60

gacagaagaa gctctgcttg agaagcaccg gggtgctatc acttccatac attattcacc 120

agatgtttct atgtttgctt ctgctgatgc caacagggaa gctgttgtgt gggatcgggc 180

aagtagagag atcaaactga agaacatgtt gtaccacaca gctaggataa actccctggc 240

ttggtcaccg gacagtcgat tggttgccac tggctcactg gacacctgtg caattgtcta 300

cgagatagac aagccagtag ccagtcgcgt cactatcaag ggagctcatc tgggtggagt 360

tcatggttta accttcctgg agaatgatac tctggtgact gccggcgagg atgcttgcat 420

tcgtgtttgg aaggtggtgg agtaat 446

<210> 41121
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B1

<400> 41121

cggacgcgtg gagagagaga gagtcccgaa gcgagcacaa gaggccaccg cacagcggcc 60

aggcggggag cgagacacct ccacacgtgt ctccccccttc ccctcccctt ccgttccctc 120

tgtagctgcg cccgaccgaa ccccccctacc ccgtggaatc gtcctccgat gcggcgccga 180

taggggctgg cggaggagcg gaatggcggc gcacggcgag aagcgtcgcc gtacggcaag 240

ggcccacgag aagccggaag aggaggagga ggaccgcatc tcggatcttc cggacgtact 300

gcgcctgcac attctgagcc tgctgccgtt caaatcgacc a 341

<210> 41122
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B10

<400> 41122

cggacgcgtg ggcggacgcg tgggggattc cccactcgcc ggcgacaacc gccgcgcccg 60

agccgtctgc taggtcttgc acctccgggc tctgggcatg gctgccgaag ctggcccaat 120

ctccaaggtc ctcatcgtcg tagcgatgca gacggaggcg atgccgctcg tccacaagtt 180

caagctcgtc gaggcgcccg cccacgaatc cacatttcct aaaggtgccc catgggttag 240

gtaccatggc aactacaaag gcctccacat tgaccttgta ttgcctggaa aggatgctgc 300

tttaggagtc gacagtgttg gtacggtatc agcagctctt ttgactagtt tttccattca 360

aacactgaag ccagacctta tcattaatgc tggcactgct ggtggcttca aggccaaagg 420

ggcaagcatt ggagatgtat t 441

<210> 41123
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B11

<400> 41123

gtgatttgaa ataattggga ataaatagtt cgtgaatccc tgaagcgtgc atatatatat 60

gcctgccaag ataaaggtaa tggagtcgtc acgcaggttc cagccggccg tcatcctgct 120

tctcctgctc attgtgtcca ccgatatggc acaggcaagg gaatgcgaga agtacagtga 180

gcgatttgtt ggggcatgca tgatcgcaga caactgcgcc aatgtgtgcc gcggtgaggg 240

cttcttggcc ggcaggtgca gcaccttccg ccgccgctgc atctgcacta ggcagtgcta 300

aacaagatcg ctcgatcgct cgccatgcat cgacaaccta ttcttaataa cgttcattat 360

ctcgttctta tttatgacga atgtcatgta tgttctggtg actgtcatgt atattctgat 420

gactgtcatg tatcttgttc at 442

<210> 41124
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B12

<400> 41124

gctgaaagca gttagaaacg agataaaacc agatcctatg tccacgatga gggcacccca 60

agttccttcc atgctacctt ttaacaatct tgcttttggc gcaacatttg gtggtccagc 120

tagtctgaag cccatgacaa tggctccaat gccaatggcc atgcctatgt caccagctcc 180

tctcacaaag aagccaactc cagcagcagc aactcctctt tgtggtaaaa gtgataccga 240

taacttgaag atggctaaac aggtgctgaa tgaagatatc tcaaagttgc aatctcaggt 300

taataaactg aaacaaaaat gtgatgccca agaagagcaa ctgcagaaag cggaaaggag 360

agctgaacat tctgcctcta cagctgcaga agagtcttca aggcgtaatg gtgtcttgga 420

gttcattagg ttccttgaca atg 443

<210> 41125
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B4

<400> 41125

gcaaagcaga acccttcgc cattttcacc aactccctcc gatcccggcc atggcggggg 60

aggactgccg ctccggcgcg gaaatggacg cgctcgtacg acgcttgaag ctccaccagc 120

cgtccccatc cccctacgac cccgatccgg ccgcggcccc cgtccccgcc accgccggcg 180

acggcgagct gttccggccg cggagagctg ccgtgcttgt ctgcctcttc cggggagacg 240

gcggcgagct ccgcgtcatc ctcactaagc gctcgtcctc cctctccacc cactccggtg 300

aagtttcatt gccaggagga aaggtcgagg agggtgatgc tgatgatgta gcaacagcgt 360

taagagagtc aaaagaggag attggacttg atccagctct ggtaactggg gttgcctctc 420

tggaacactt cttggccaag catcttc 447

<210> 41126

<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B5

<400> 41126

gaggaacact gtcatcccga ccaagaagtc gcaggtgttc accacctacc aggaccagca 60

gaccactgtc tccatccagg tctttgaggg tgagcgcagt atgaccaagg actgccgtct 120

tctcggcaag ttcgacctca acggcattgc gccagctcca aggggcacac cccagatcga 180

ggtgaccttc gaggtggacg ccaacggtat cctgaacgtg aaggcggagg acaagggcac 240

gggcaagtcg gagaagatca cgatcacgaa cgagaagggg cggctgagcc aggaggagat 300

cgaccgcatg gtgcgggagg cggaggagtt cgcggaggag gacaagaagg tgaaggagcg 360

gatcgacgcc cgcaaccagc tggagacgta cgtgtacaac atgaagaaca cggtgggcga 420

caaggacaag ctcgcggaca agc 443

<210> 41127
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B6

<400> 41127

cgacacgtcg tccagcccgg agcagaagcc gaagttgatc gccgagtgtc aggccggcga 60

tgcggtcgtg ctcacctacg cctgcgaccg gcccgccacg ctggagcggc tcagttcgtt 120

ctggcttccc gagctccggc gactccagct gaaggcccca gttatcgtgg tggggtgcaa 180

gctggacctg agggacgaac aacaagttag ccttgagcag gttatggcgc ccatcatgca 240

gtccttccgc gagattgaga cctgcattga gtgctccgct cttcgccaga tacaggtgcc 300

tgaggttttc tactatgccc agaaggcagt acttcaccct actgcccccc tttttgatca 360

agaattacaa tctctgaagc ctcgatgtgt gagagcgttg aagcggatat tcattatatg 420

tgataatgac aaggatggtg ctctcagtga cgtggagctc aatgaat 467

<210> 41128
<211> 368
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G6

<400> 41128

atctctgcgg agtaggtcgc ctgacgaact cacaaatcac aaggatacgc cgagacgcgc 60

gtctcgtttc tcccttcctc agctgctggc cccctgcctg cagccattgc cccgctcctc 120

gaggtcaaat ggcccctgcc cccgctctca ccgccacatc cgtcctgaag cgatcccacc 180

tacccggcgt ccactcgttg gccggtcgcc ggcagccggg gcgggaccgc gtctcggtgc 240

tttctccagc gatcccgccg ccccgcgttt catggcagca aggatctgga gtggttgcta 300

agaggctcct ctgggcgagt gcgagtggtt ccttcgagaa agataacatc ggggaggacg 360

tggtgttg 368

<210> 41129
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G7

<400> 41129

aaacctatca tcatcttctc cgatccatca tcaatcgccg agagcgatcg agagataaat 60

gaagatgaag aaagtggcat catcgtcagc cgttctcttc gtgctagccc tgacgctagt 120

ttgtgccccg ctgatagcag aggcaaagaa gaagagagtc gccgccgccg ccgccgagga 180

gaagaaggtg caggacaact tctgctcgac gctgtgcgag ggcaggaagg ggatggacct 240

ggtggtgtgc aaggagtcct gcgacctctc acagcgctcc aacctggtgc tgtacggccg 300

gatccagtgc aaggggcaag tgcaccgagc agaatggcat caccgggccg cagatgaagg 360

tgtgccaaga ggcgtgcgac aaggacta 388

<210> 41130
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G8

<400> 41130

atcatcttct ccgatccatc aacaatcgtc gtgagcgatc gagagataaa taaagatgaa 60

gaaagtggca tcatcgtcag ccggtctctt cgtgctagcc ctgacgctag tttgtgcccc 120

gctgatagca gaggcaaaga agaagagagt cgccgtcgcc gccgccgagg agaagaaggt 180

gcaggacaac ttctgctcga cgctgtgcga gggcaggaag gggatggacc tggtggtgtg 240

caaggagtcc tgcgacctct cacagcgctc caacctggtg ctgtacggcc ggatccagtg 300

caagggcaag tgcaccgagc agaag 325

<210> 41131
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G9

<400> 41131

gaggcggtta agctcctccc cggcaacgta ttcaaacctg gccacctgat ccatatcccg 60

ggcgttttta ccatattcga agcggacatc aaagagcacg cacgtcacga cttttacttt 120

acgctcaagg 130

<210> 41132
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H1

<400> 41132

cggacgcgtg ggccggagcc gcacgggcgc gagcgaggca ggcagtggct cctcccccct 60

ccgggcgata tcagctcatc gatgcgtcct atcacacaca tatcattacc gctcctcttc 120

ctctcctatg cttgtcctct aactcattgg cagaagagaa aaaaaaagtc cttgttgagt 180

tgttgtatcg ggttctggtg gtgactgtta ctggggtttc cttgtccggt tcttgattcg 240

cgcaaggaca gatttgccgt cctctcgggt tccgccgggc ggtgctgaaa tcctccttcc 300

ctgttccct 309

<210> 41133
<211> 389
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H10

<400> 41133

gtcctcgaca aggacggctc cggcaccgtc ttcgtcgccg acctccgcca cgtcctcacg 60

tgcatcggag agaagctcga ggtgcacgag ttcgacgagt ggatccgcga ggtctacgtc 120

gcgcccgacg gcaccatccg ttacgacgac ttcatccgcc gcatcgtcgc caaatgatcc 180

cgtcccctcc gagtctccat tccgccgatc cacccttgcg cgctcttcgt ctgtaataac 240

ttcgtctccc atccgcgtga tttcattttg gttcccttct atggctggct catttgaatt 300

caatctggcc tccctttcgt tcccagactg ctcggataaa acggataatg gttgctgtgt 360

gttattaacc ctttcacggt tttttttt 389

<210> 41134
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H11

<400> 41134

cagacgcgtg cggttccttc ctcaacctta ttttcggctc tcaccagaga aaaattgagg 60

agcattaacc aaaggatcag agggccaaag ctaacatgga caagcctgtg atgaaccaat 120

gagtatctcc agaagctttc gttaaagtgc aaccaaatcc gatatcactt tgatctggtt 180

agcttaaaac caacgctttt aat 203

<210> 41135
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H12

<400> 41135

atcaagttcc tgacggtcat gcagcgccat ggctacattg gtgagttcga gtacgtggat 60

gaccacagag ctgggaagat cgtggtggag ctgaatggaa gactgaataa atgtggtgtt 120

attagcccac gttttgatgt atgtgttaag gagatcgagg gatggacggc gaggcttctt 180

ccatcttgcc aggttggcta catcgtccta acaacttctg gtggaattat ggaccatgag 240

gaggcccgcc gtaagaatgt tggtggcaag gttctaagtt tcttttattg aaaatggtgt 300

tttttgagcc acaaatgcgt tcaagaactc tgttgatgtt ttgaggtttg tt 352

<210> 41136
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H2

<400> 41136

ccgacgcgtg ggccgaagcc tcacgagcgc agagcggaga ttgcagcgac tcctcctccc 60

tgcgggcgat atacgctcat cgatgccgtc tatcacacac ctatcattac cgctcctctt 120

cctctcctat gctatgctct ctaactcatt gtcaaaatag aaaaaaaaag tccttgttga 180

gatagatgta tccggattct gcgaggtgac ctggtactg 219

<210> 41137
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H3

<400> 41137

ccaatatgat gaagctacgt tctgaatata atgatgaatc tgtcacaaag catggtgtca 60

aagtgggtct tatgtctagc tatggcaagg ctgctgaata tgcacttcaa aaccagccaa 120

ttgttaatgc tgccattgct ggcaatgaca tcatatacag agactacgta tacgtcaccg 180

acgctgctgg cacttccaag ggcccagtgg tgcctggtat ccgagatgct cataccatga 240

actttgctga cattgagaaa gggatgaa 268

<210> 41138
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H4

<400> 41138

gataaaacca tcgcttacgt gggcgattct ctatggaggc agtgtttcag tcgatgatgt 60

gtgtggtcac tggtggaaag gagaggctgg atatataaaa tattggcgca cagtatggct 120

ttgtgttagc gccgggtgca aaaaagccaa acggctgggc ctaccggttc ccgagcacca 180

acacaacaat tctataccac tggtcatcaa cgctctgtga tttggagccc ctgaacccat 240

cataccgagc gaccagttat gccatgcacc tggaccgccc gcctgctttt ctgaagagca 300

acctccacag gctccatg 318

<210> 41139
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H6

<400> 41139

ggcggtgaac ggagtatcct acctcccaca tctagtgctg atgggcactg gagcttacct 60

gtgcatgaca caagctgcgc ttgcggtggg ctcacttttt gatcaagttt tgattccagc 120

ccgatattgg gtcagttatc ctgagatgga tagactggct gatgcgactc cagtgattct 180

tactacaaac atatcagaga atttcttgtt catgccagag ttgcttaccg actagatcaa 240

tgagaaatcg aggctcttaa ttctctgctc tacatct 277

<210> 41140
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H9

<400> 41140

cggacgcgta ggcagacgcg tgggccggtc ttaggccgac atctggtcct gctgcttaag 60

ggtgttcgtg ctactcgccg ggtgcctccc gttccacaac gccaacctga tggagatgta 120

ccgcaagatc agcacatccg acatcaagta cccatagtgg ttatcccctg aactccagcg 180

ggtgatgccc aagcttcttt aaccgaaccc aaacaacagg atcacgatcg agaagctact 240

cgagcacccc atggtcaaga aggagtacag gccggccgtc atgctggcac atccgcacgg 300

cttcagcagc ctcaatgatg tccaagtctg cttcagtaac accgaccaca aagaca 356

<210> 41141
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A1

<400> 41141

gacgaatgga atagggcctg tatgaaacat gcagatgacg aacgcgatct aacttatgag 60

ggcatcatag agtctgtatc gggtgaactg gaaaaggagc tccacacata tggagaggac 120

acgtgaaaag cacgctacta cactggatca tctggaccgg gttgataggc atgaagagtc 180

acccctgatt gagcaagcta ttcaaacacg catagtggac gattaagaac cttgacgatc 240

atgaggcact ttcgcagata caactcgata ggcttcacca tgcctaacac tgactcgaga 300

aaaattgact ttcacagacg ttcgagcaca ataatgctgt accggaga 348

<210> 41142
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A10

<400> 41142

ctgcgattcc cggcgctgat gcgggagtgg ccatcgccgt cgctgatccc ggcgtccacg 60

ctgctccccg tgccggccac ctcccaggag gacgaggtcc tcctcgccat ggccgagtcc 120

gacctcgagg acaagttgaa tgagatccgg aagaccaaca gccacctgat tatcatcggg 180

aagcccacag gcgacaccaa ggaggagtat gacgctgacg tggaggacga cgatgcagac 240

aacgtcgagg agtctgatgg cgatgacttc gaccaggaga ctggttgacc caggcggctc 300

cccgctcccc ccctgcttcg ccggcatcct tgagcgtcgc catccccact gcccagtctg 360

tatttcgcaa tccctgagtc gctcctgcta tctagatgtt ctgtgttacc ctattctgct 420

gctgctgtct gttctcgga 439

<210> 41143
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G5

<400> 41143

ggccgacatt ggtttttttct atttgcaaga ttatgtactg ttgatcaaaa taacagcact 60

acgcatcata caacatgctc taggagtagg atacagtaac acagcagcag aacatccaac 120

ccaacattct gccaagctct gatcaaacgc caaaacctgc aacatgcgat ctactgaccg 180

tacccaagta actcacccca caccctacct tgatcgccag agcagcttac cctctacaca 240

cactactgcg cgaggcacgc accgaccaca cggcgagcta attatgtatg agtaagttta 300

gggactgggc ttac 314

<210> 41144
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A11

<400> 41144

ggaaaatcaa gcgaactccc tccccttgat gttccactcc caggcattag cattccctca 60

cgtctaccag attttgtaga gccatctaag acaaaagtca ctactcttcc aaatggcgtc 120

aagatcgcct aggagacatc atcgagccca gcagcatctg tgggtctgta cattgactgt 180

ggttccattt acgaaacacc tgcttcatct ggagtatcac atctgttgga gagaatggcc 240

ttcaagagca cagtgaatcg gactcactta cggttagatc gtgaggtaga agccattgga 300

ggaaatgtct ctgcatcagc ttcccgtgaa caaatgagct atacctatga tgcattgaag 360

agctatacac cagaaatggt tgaagttctc attgacagtg tgaggaatcc agcattcctc 420

gattgggaag tcaaagagca gc 442

<210> 41145
<211> 56
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A12

<400> 41145

atccgatcat gctacctaag atgcgacgac gttactctat cagcatgaca gcagat 56

<210> 41146
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E6

<400> 41146

tggtaccttt ggggaggcga ggaaggacac gaggtcggcg cgttcgtgcg tgcccttctc 60

actgcacgcc gatccccctc tccgaacccc gccgcctgcc gcagatccga gggtcatcgg 120

cagccatgat ctcgtccagc aagctcaagt ccgtcgactt ctacaggaaa atacctaggg 180

atttgaccga ggcatcacta tctggcgctg gattatccat tgtagcagca ttagcaatgg 240

ttttttttgtt tggaatggag ttgagcagtt acttagcagt caatactacc acatctgtga 300

tcgttgatag gagttcagat ggggagtttt taaggataga tttcaatatg agctttcctg 360

cgctttcatg tgaatttgca tcagttgatg gtagtgacgt gctgggaaca tacagattga 420

acataacgaa a 431

<210> 41147
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E8

<400> 41147

cgccgctttg gttcctgttt ccccacagct cccaactctc tatatctcaa tctcttgggg 60

atgtaccgtt tcttgctttg acgcaaacca catcaatctg tggccgttgt ttccatcgga 120

gctgttgagg tttgtcttct tctcggccga agacatggcg gcggcgaacg gagctgccgg 180

tgcggtgctg ttcagcgagg aggacctgat ggaggtgagt ggggtgcgct ggggagagga 240

cttcgtggag gtgacgtgcg gatgcaccag ccacc 275

<210> 41148
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E9

<400> 41148

gtgagagaaa ccactgatct gacctgctgt tgttcatctg accacatgcg ttcattgagg 60

cggacgatta cctggacccg acggcgccca aaaccttcca tggaaactgc ctcttacctc 120

aaaccaactg ccaaatacta tgtattccac ccatatttgg gcacaacaca gcccataggt 180

cccataacac cgcattttca cagttcaagc cagaggagat taccaacatc attaaagact 240

tctactagcc t 251

<210> 41149
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F10

<400> 41149

cagaaccgca gaagtgcagc agaacgatcg gatctagcag aattctctca acctcatcgg 60

cggcggcgaa gagcgtgcgg agcggagatg gcgacaagcg ggtggaggag gagagcggct 120

gcgcgggcct cctggagcca caccacggtg tacctgtggc tcgcgctcgc cgcagcagca 180

ctgacgcgcg cccaggctaa gaaggaccta acggaggtta cccacaaggt ctacttcgat 240

gtcgagattg acggcaagcc cgcaggtcgg attgtcatgg ggctttttgg gaagactgtt 300

cctaagacag cagagaactt ccgagctctt tgcacaggag agaaaggaat tggcaag 357

<210> 41150
<211> 87
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F11

<400> 41150

gtgaaacaca cggatgcttt ttctaccttt tttgaattgg acttcatgca cttcatcagg 60

ggcattatta acaatctcga ggggcac 87

<210> 41151
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F12

<400> 41151

gtggagcaag ctgttggaat gccatcagtt gcccaaatat tcaaggtcca tagtgaagcg 60

tgctttcggg ataatgagag tggtgtcttg agagatttgt cctccatgcg acgattagtt 120

gttgccaccg gaggtggtgc tgttatccga ccaattaact ggagatatat gaagaggggc 180

ctatctgttt ggttagatgt gcccttggat gctcttgcta ggcgtattgc taaagtggga 240

actgcctctc gtcctcttct ggaccaacca tctggtgatc cgtacgcaat ggccttttct 300

aagctcagca tgcttgcaca gcaaaagggt gatgcttatt caaatg 346

<210> 41152
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F5

<400> 41152

gcgcgaacgc gtgcatgcgc agacgttgag gtcgagggac acggtatctc tgagcttcat 60

cagagagcga cccgtcaccg tcacgcttgg ctcgaagccg agaagagtgc cgggccggga 120

gaccggacga taattgatcc gtagcagatt cgctaatggc ggagacggcg gacatggagc 180

ggatcttcaa gcggttcgac accaacggcg acggtaagat ctcgctgtcg gagctgacgg 240

aggcgctacg gacgctgggg tacacctatg tcgacgaggt gcagcgcatg atggccgaga 300

tcgacaccga cggcgacagc tgcattgact tcaacga 337

<210> 41153
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F6

<400> 41153

caagaagcag acaggccagc tgaaggatat tacattcgtt ctgggataac tgtggtgctc 60

aagaatgcag taattctgaa tggtacaaaa atttagaaga ttatagaatt atctgcagaa 120

taccaatccc tcagtgaaga gcacagcatt gaagcccaca gcagagttct acgacgcaga 180

tgcagtcaat aaaaacccca atagcacaaa agattaggag actgtcgatg cagctaaaga 240

agtgtggata taggcatgga gcacctgcac ctgcaacacg ccaacggtac ggacaaacca 300

tgagcttgag gccatttcac gtcctttcat aagcctcggc tagtgccggc gcgcgcaggg 360

tatcttttgt tccttttttc taacagtaat ttacgtg 397

<210> 41154
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F7

<400> 41154

tttctgctgt gatggttgcc ttggacaagt cattttacc ccactacgga aatccagcga 60

cgagttttac gcggcgatgc ggcacaacct gagcagcgtg aaggacactt ttgaggaggt 120

gaagcagctg gaggagaagg ccaatgctgt catggcggtt gcttgagcgg cgattgcagc 180

ggcgctgaac accattaata acgagacgca tgctgagctg gagcatcaga ttgcttgagg 240

ga 242

<210> 41155
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F8

<400> 41155

cggacgcgtg ggccgaccgc gagcaagcgg accaaatcct gctccatatt ctatcgcgtg 60

cacgcatctg gccgcctcga ccctcggcgg cggcggctgc tactacaacg atgatggggc 120

tggagatgga ggcgatggcg gggtccatcg gcgtgtcggt gcccgtgctc cgggtcctg 179

<210> 41156
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F9

<400> 41156

cgcacagctg ctctaaaccc taggagcgtg cttgaacagt ggcggatatg ttatagcgag 60

ggacccttc gccgtatcga aggtctttgt atatcattac taccaaacgt tcgataccaa 120

ccgtgctggg cttgatgggc tgtaccatca gactctcatg ctcacctttg agggtcagaa 180

tttccatggc ccgtactaca ttgacggaac gcttggatct ttccattacc aggcctgtga 240

gcatcatatc tttaactgtt gactgccatc cat 273

<210> 41157
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G1

<400> 41157

ctcatgttgt ttgttcttgc atgaggaatc taccactaat attgtcctca ttgatgcata 60

catgtgtgaa ctcaaagcat tgtgcatgct atacttattt atcaaacaaa tacaaaagct 120

tccttgtacc t 131

<210> 41158
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G10

<400> 41158

gtcctgctca cggaccagtt cggcaccgga tccaagcccg acctcctgca cctcatcacg 60

tacgttggca acatattcga ggtgcacatc atagaccacg ggatccatga cttctacttt 120

acgctcaacg aggccctgac ttacaactac acgctccaca ccatcgccgc actaaagtac 180

ccgctctgca tacgctttat tgcgacgatt cacggttacc cgctcttcga ctacaataac 240

ttcgcctatc ataagggtgg caccacctat aatacctcac atggcttgtt aataaccatt 300

c 301

<210> 41159
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G11

<400> 41159

caaacgcgat cgatgcatga aattccattc tccgatctcg gatgcgacga caccacacgc 60

tgcgatggtg gcgcgctcga ggcgacgtca ttcgtctcgg cagacatggc atgatagcca 120

cgagaggggt ggcagcttga tgacaagcag tctgacaaga aaatgtaagg catattaact 180

ggagacttct ttacgtttat atgatgatga atgagaaagg atggacagca tgggactgca 240

cgagaaccat cagacaggca tctatgccta ttgattaatg aagcgatgag atatttacca 300

aaaagctata atttcctta 319

<210> 41160
<211> 154
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G12

<400> 41160

caaaaacact cgattcatgt ggcttctttt atcaagagtg tattcaacga caacatcagg 60

agggttaatt gcttgcttga ggcgatctca ttttactctg ccaacacctc atgataacat 120

aagagacgac cgggcgcatc cttacaactg ctct 154

<210> 41161
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G2

<400> 41161

gagaaaggag ggcctgaggc actctcagtc ttatactgac accaaacgag ccaaacaaca 60

atgtgctcag agatctcgtg tccggaagct ccagtatatt gcagagcttg agagaagagt 120

tcagtcctta cagacagagg gaatagaagt aactgctgaa atggattttc tcggtcagca 180

aaatatcatg ttagacttgg aaaatcaagc cttgaagcaa cagcttgaga gtgtatctca 240

ggagcatctt attaaacggt atcagcaaga gattgttggg agggaaatt 289

<210> 41162

<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E5

<400> 41162

cggacgcgtg ggcggacgcg tgggcccgct atgtacgtcg ccatccaggc cgtcctgtct 60

cgggagtgcc agtggtcgta ccacaggtat cgtgctcgac tcgggagatg gtgtcagcca 120

cactgtcccc atctaccagg gatacgccct cccccacgcc atccttcgtc tcgacctggc 180

tggccgcgac ctcaccgact accttatgaa gatcctgact gaacgcggct acttcttcac 240

caccactgct gagcgggaaa ttgtcaggga catgaaagag aagctcgcct acattgccct 300

ggactacgac caggagatgg agactgccaa gaccagctct tttgttgaga agagctacaa 360

gctggctgac tgacaggtca ttacctttgg tgctgagcgc ttttcgtgc 409

<210> 41163
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G3

<400> 41163

cccacgcgtt cgcccacgcg tccgcaggaa agctggagat ggaagcgagg aggaattaaa 60

gaggacaata aacaaagcag aaaaccatac aggcaatgac aggttgtgcg aggggttgtg 120

tacttgtgtg agaggctgcc gcggacgtgt ggaacttagc gggtgttgtc atagttcata 180

aacaattcgt ggagaaccaa tctagcaagc tagtagccta aaagtggaga tagccgatga 240

ggtcttaaga tgcaactgaa gcaaaagagg ctactacatc aaggagcagt tcaaccactc 300

atttgatggc ataatccatt tgatgaggtc ttagatgcaa ctgaacc 347

<210> 41164
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G4

<400> 41164

gctggctttt tcttcctctc ttaccaagaa ctcttcgggt tagggttact taaggttttg 60

tggaggggcg atggctgctg ctgatgtgga ataccgttgc ttagtcggcg gacttgcctg 120

ggccaccatg aacgagtctg tggagaatgc cttcgcctcc tacggcgaga tcctagacta 180

caaggtcatc accgaccgga agacagggag gtctcacggc ttcggcttcg ttaccttata 240

ctactagaac ttgatgctag acgctataca gaacatgaac ggtaagg 287

<210> 41165
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C8

<400> 41165

cagacacatc cgactgcccg ggccaaacca aatcaacggc agcactgacg ttgttcacgc 60

tgatcctctt catcttgtaa agggtgctca caagctcatc ctgagcactg ctaacgccgg 120

tggccgtgtc gctagcggcg atcatcttac tccatggctg agaacccacg cctgactagg 180

tggtgcctaa caggaacgtt tcctgcctat ctcacgagac gagcataaac attcggagac 240

atg 243

<210> 41166
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-026-Q1-K1-C9

<400> 41166

cggacgcgtg ggcggacgcg tggggaaaca ggcacacaag aacaaatacc tcgccaccaa 60

caatggcctc caggtcctcc atcgctactt gcaacggcga tgctggttgc gctgtttgcg 120

gttggtttgt gcaccacccc gctcaccttc caggttggca agggatccaa gcctggccac 180

ctgatcctca cccccaatgt tgcaaccata tctgacgtgg agatcaaaga gcacgggggc 240

gatgacttct cctttacgct caaggagggc ccgaccggca cctggacgct cgacaccaag 300

gccccgctca agtacccccc ttgcatccgc tttgctgtca agtccggtgg ctaccgcatc 360

gncgacgacg tcattcccgg cgatt 385

<210> 41167
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D1

<400> 41167

accacgcgtg cggttaattg tggaggggag tgtcatgtat ctatacagcg tactctagaa 60

cgggttgcat gtaagcgcca tgtgagaccg tgagttctct atcacgcctg atcatggagt 120

aacagcgttt ctaaaatgca tgttgacatt ggccagctga cttggtgtga tctagcacaa 180

ctatgaagag agtcatgaat ggcttgcatg atggcctcaa agatgtccat ttaatcct 238

<210> 41168
<211> 123
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D10

<400> 41168

gtgaagaacg cgtccaaact ggctaccgtt ttcacgtaga agaacaagga ctccatgggc 60

gcgggcatta actggctaga cggcgaccag atacgcacgg ccgtcaacat ctattacacg 120

atg 123

<210> 41169
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D11

<400> 41169

gagaagatcg cgtccaagct ggctgccgac gacaagaaga agatcgagga cgccatcggc 60

gcggccatca gctggctgga cgccaaccag ctcgccgagg cggacgagtt cgatgacaag 120

atgaaggagc tggagagcct ttgcaacccc atcatcgcca agatgtacca gggcgcgggt 180

gccgacatgg gtggcgccgg cggcatggac gaggacgctt cggctggaag cggtggccct 240

ggccccaaga tcgaggaggt ggactaagcg gattgtgtca gtctcgtgtg tctgctgcag 300

tggctggctg gcccagtcgc tgctcgattt attgtcatca tcgcggtgta tccgcgttag 360

aacctttttt t 371

<210> 41170
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D12

<400> 41170

cccacgcgtg cggctctggc aagtatgaga agaaggtgta tgtgctcccc aagcacctgg 60

atgagaaggt tgctgctctg cacttgggca agcttggtgc caagctgacc aagctcacca 120

agtctcaggc cgactacatc agcgtgccga tcgagggtcc ctacaagcct gcccactacc 180

ggtactaggc acacggcttg cagcttactc gggccgttgt gtgctatgaa gttcgctaca 240

ctggcctgtc aggtatctgt tgcatgcata tgcattatca tatacgcagt cgcgtagcag 300

gttttcttat ggttatcgct tgagctgatg agggagggaa g 341

<210> 41171
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D2

<400> 41171

ggaagcaccg agagcgctcc agagatgtcg tcggatgagt tgcgattgga gctggacgag 60

ctgcgtcggc tggagggcct cgccaagcgc ccccgcgtcc agaccctcct cgccaacgag 120

atccgcaaca ttgaagctaa gatggcgaag gcaactgaac cgtcaccgga gccactagtg 180

gcggcttccg cgcccgcggc ggcggcggcg cgttctgatt tgagctacgc cacgttgggc 240

tcgttcagct gggaacagga caacgagaag atcaggatat atattcccct tgagggagtc 300

gaacaaggga aggtggaggc tactttcaag ccaacatcag tagatgt 347

<210> 41172
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D3

<400> 41172

cctcctcctc ctcctgctcc cggggcgggc ggcctccttt tccacctcct gctggtgcca 60

gggccgggag ggcgtcgcgg aggtggcgcg catggggctc gccggggacg ggtcggcgga 120

caccgcccac ctcagtaata atgaaaatgg gcggttcatt tatggagttg cgagttctcc 180

tggtaaaaga gcatcgatgg aggacttcta tgaggcaaga atagacgacg ttgatggaga 240

gaaaattgga atgttcggtg tatatgatgg tcatggagga gtccgagcag ctgagtatgt 300

taagcagcac cttttcagca atttaatcaa acacccaaag ttca 344

<210> 41173
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D5

<400> 41173

ccaggttggc aagggatcca agcctggcca tctgatcctc acccccaatg ttgcaaccat 60

atctgacgtg gagatcaaag agcacggggg cgatgacttc tcctttacgc tcaaggaggg 120

cccgaccggc acctggacgc tcgacaccaa ggccccgctc aagtaccccc tttgcatccg 180

ctttgctgtc aagtccggtg gctaccgcat cgccgacgac gtcatccccg ccgatttcaa 240

ggccggcacc acctataaga ccacactcag catctaatca gcctctgatg atgaattata 300

tttcaaaaga gctcacctgg cgctcacgtt agcaagacaa tatttcttct atggttattt 360

tggggcgcca aaccacccaa gaaatatgtg atgctacatg tcccttatga tgccttgttg 420

tgttgggttg atattattac ataaa 445

<210> 41174
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-026-Q1-K1-D6

<400> 41174

tgacaatccc caagggaacc ttgttcccca tgtgtggcat gaaccttgcc ttcgacaggg 60

atgctcattg gccctgctat gtactttggt ctcatgggtg atggccagcc catcggtcgc 120

tacgacgaca tgtgggcagg atggtgtgtg aaggtcatct gcgaccacct gagcctggga 180

gtcaagactg gcctgccata catctggcac agcaaggcta gcaacccctt cgttaacttg 240

aagaaggaat acaagggcat cttctggcag gaggacatca tccncttctt ccagaacgtg 300

accatcccca aggactgcga caccgtccaa aagtgctaca tctacctctc tggacaagtg 360

aaggagaagc tgggcacgat tgacccctac ttngtcaaag ctcgtgacgc catggtcacc 420

ctggatcgag gcctgggatg ag 442

<210> 41175
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D7

<400> 41175

gcacccggta tccctgctcc ttttccttgg cggacgaacg gggctccctc cggcgactgg 60

ggtgctccct ctagccatcg actacctcac agatccctgt aagccggacc ccattaccct 120

tctcggatag ctgtgcccct accgacagga cttcacggga gcaagcctgg ggttgatcgg 180

aggactcggc atggatcggt gcacgaaacc acgcccagga cttctcacag atcacactgg 240

accgagcgct gagcgcctgg aacttccctg ttcatgcgcg agttaggtgg accggagctc 300

tccgtcgtgc gttgaacatc gctgtgct 328

<210> 41176
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D8

<400> 41176

cagacacgtt ggcatacgcc ttaccaatcg ttcatacacg tactcataat ttatcacggg 60

ggaaaatcta gatgccttgg atgaagctaa ctaagatttg catgacaacc ctttcactga 120

tcaagaacct gtactatgga agaacacata agatttctta aagaaatatt cc 172

<210> 41177
<211> 57
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D9

<400> 41177

cagacacgtg cgcctactcg tgggcaaact ctcacacatg aacaaatacc ttatcac 57

<210> 41178
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E1

<400> 41178

cacaagatac atgacagtcg tgtagctagc tcatgtatgc tcaacggtca taatctagaa 60

catgtattaa gagcgcgacg agtgcctcaa gaattactat accggccaag atcattcatc 120

aacagcatgt cactttgcat tgtggccact tcaatctgga tcaagtgtgg tcagatcttt 180

tagtgattta acgcttatat tacttacaac aaaagataaa cccaccaatg cggacctcga 240

tgtaccgccc agttcagcag aagcgcacac cgagatgttc catctgagcc ctgctggcc 299

<210> 41179
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E10

<400> 41179

cttaattgcg ccactgctcg ttatcctcct cttgcattgc attgcaggtc gtagttgagc 60

agcagcaacc actgcacagg atgtcgtggc agacgtacgt cgatgagcac ctcatgtgcg 120

agatcgaggg ccaccacctg agctctgccg ccatagtcgg ccacgacggc gccgtttggg 180

cccagagcac cgcattccca cagttcaagc cagaggagat gaccaacatc attaaggact 240

tcgacgagcc tgggtttctg gccccgatcg gcctcttcct tggccccacc aagtacatgg 300

tcattcaagg cgagcccggc gctgtcattc gcgggaagaa gggatct 347

<210> 41180
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E11

<400> 41180

cttaattgcg ccactgctcg ttatccttct tttgcattgc attgcaggtc gtacttgagc 60

agcagcaacc actgcacagg atgtcgtggc agacgtacgt cgatgagcac ctcatgtgcg 120

agatcgaggg ccaccacctg agctctgccg ccatagtcgg ccacgacggc gccgtttggg 180

cccagagcac cgcattccca cagttcaagc cagaggagat gaccaacatc attaaggact 240

tcgacgagcc tgggtttctg gccccgatcg gcctcttcct tggccccacc aagtacatgg 300

tcattcaagg cgagcccggc gctgtcattc gcgggaagaa aggatct 347

<210> 41181
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E12

<400> 41181

aataaatgca ccactgatac gaaaaacttt ttttgcattg catagcaaag aaaaaaatga 60

gcagcagcaa cacactgcac agggtgtcgt ggcaaaacgt acgtcgatga gcaccttatg 120

tgcgagatcg agggccacca cctgagctct gccgtcatag tcggccacga cagcgccttt 180

tgggcccaga gcaccgtatt cccacagttc aagccagacg agattaccaa cattattaaa 240

gactttgacc agccttggtt tttggccctc atcggactat tccattggcc caccaagtac 300

atggttatcc aaagcgagcc ctgctctttt atccatggga agaagggatt ct 352

<210> 41182
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E2

<400> 41182

cggacgcgtg ggcggacgcg tgggggcgtc cgagggcgac aacaagagga tgatcacgct 60

caggggctcc gacttagagg aggtggaggt ggacgaagct gcggccatgg actcgcatac 120

tctccgccac atgatcgacg acgactgcgc ctacaacggc gtcccgatcc acaacgtcaa 180

ctccaggatc ctctctaagg tcatcgagta ctgcaacagt cacgtgcaca ccgtcgtcat 240

acccgatgac tactctgtct tcgagggcgg cgaggacctc aagagctggg acgcg 295

<210> 41183
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E3

<400> 41183

cggacgcgtg ggcgatcacg acaagatggc gtgcacaaac aatgcgatga gagccttgtt 60

gcggctggtc ctcttctgca tcgtgcatgg tgagaaggaa gagtcaaagg gcatcgatgc 120

gaaagcgtcc aggcctggtg ggtccttcga catcaccaag ttgggcgcct ccggcaatgg 180

caagacagac agcacgaagg ctgtgcagga ggcatgggca tcggcgtgcg gcggcactgg 240

gaagcagaca atcctcatac ccaagggtga cttccttgtc ggacaactca acttcacagg 300

cccttgcagg ggcgacgtga ccatccacgt aggatggcaa tctgctggcg accacggacc 360

taagccagta caaggcccat ggtaaattga atcgagat 398

<210> 41184
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E4

<400> 41184

atctggttta atcttacggc ctcctacggg agggctgagt accgggacta tcttgcgagt 60

gcgtcgcagt tcacaacaaa ttggtaccgg agccactacg cgcgcatcgc caccatggcc 120

ggcgcgcacg acgatcttgt gacctactcc gccaagatgg acctcatcct cgagcaactt 180

gccgacatca atgcccgttt ggattcccat gacgctcgtc tggccaagct agaccaggcg 240

tgggtcagcc cctttgcttc taccgcgggc tgcctgggcg cgagcgaggg cggcctgggc 300

gcgggcagag gcggccgaat cgaggacgat gggggcaatg ggctgcaacc caacacaccc 360

aaggaggtgg aggcggcgtt ctacgttga 389

<210> 41185
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A5

<400> 41185

cgcacgcgtg cgcgtactcg atgtgcacgt tggagttctt gcctcgtacg aggttgccgc 60

tgggaggcca cttcaatcat actaggtgtc gttgctgttc acgagggacg taatcgccac 120

tagatccgga agaaagcaac catgcgcagg acgaccctta acatctgcct tgtatccctg 180

gagatgagaa agacattatg ttcaactctt caagtctggt ctaccggctt tgatccacag 240

tgcaaggtac gga 253

<210> 41186
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A6

<400> 41186

ggtggtccac catggcgcag cgagcggtgg ccacgatgac gactaataag ccccttctcc 60

tgggcgccct ggcgtccgcg ctccgtggtg cggcgcctgc cgccgcgaac gcgcccggcg 120

gggcgttcag caactgggtg gcgatgaacc agcagagcta cgcgctgtac gcgcagaagt 180

ccgtcgggga cgggggcaag gagcccctgg acaagaagct gtcggaggcg gagaagaaga 240

aggtcacgta cgtggtggac cccagcg 267

<210> 41187
<211> 265
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-026-Q1-K1-A7

<400> 41187

ctgcaaatga gatgttctgc acctatgttt gtaatgttgt atttctgggt ttttaagcga 60

gccaacttgg agatacaacc ggggaggaaa cancaacaat aggtagttct acttctgagt 120

gaggaaaaac aacttgcggc tgagttaatg aagcttagta gctaccaccg ttgtatgaca 180

gttgctcaga gatgttatct tcattaagtg cttatattac cgctagttcc ctgtgaaatt 240

tgttaaacca ttatatgtaa gtttt 265

<210> 41188
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A9

<400> 41188

gcactatcta taggaagtgc cctgtgtttt tttttctcat tccttgctag tgtcactaag 60

ggggctacta acatcacaaa gggtcttcaa tcacattctc cacttcattc ttcatgcccc 120

aatatccttc ttttattcca cacctactgg tataatttta aacaagtcct ctaattacca 180

aacttttcta cattttgaaa tatcaaacat actaagctct tctttttctt caatcattac 240

tatttcttgg caccactctt cttatttcat attttatcat tcccaacttt tctaccttta 300

ttcaccaaca tcaaactttc ttttttctat t 331

<210> 41189
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B1

<400> 41189

agcaaacctg cagtcatttg ctgcagcacc accaccaagc tcaacaacag ccagctcgcg 60

aaaatagatt aatagccgga ccatggcgtc atcaggcgcg ctcttcgaac tagcccgtcc 120

gctagtggcg gccaccgccc cacaggtagc ggaggcaaag aagaagagag cggcggatag 180

cggcgaggct gcagaagcga aaaagatcca ggaccacttc tgctcgactc tgtgccaggg 240

<210> 41190
<211> 310

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B10

<400> 41190

cagtcatctc ctccaccacc accaccaagc tcaacaacag ccagctcgcg aaaataatga 60

agagccgcag catggcatca tcggccgcgc tcttggtgct agccctcgcg ctagtggcgg 120

ccaccgcccc acaggtagcg gaggcaaaga agaagagagc ggcggagagc ggcgaggcgg 180

cggaggcgaa gaagatccag gacgacttct gctcgacgct gtgcgagggc aagaagggga 240

cggacctggt cgtgtgcaag gagtcctgcg ctctctccca gcagtccaac ctggtgctgt 300

acggcaggat 310

<210> 41191
<211> 153
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B2

<400> 41191

aagattactg aaccaaactt acaaggagat agctattcta tactttaacc taaagtcaat 60

taggggcac gacttttaca acaaggtgcc tgagaaaact ctagctaaac tcaactaaat 120

tcgcttgcac cacatccaac cttctccagg tgt 153

<210> 41192
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B4

<400> 41192

gcgaggcggc ggaggcgaag aagatccagg acgacttctg ctcgacgctg tgcgagggca 60

agaaggggac ggacctggtc acgtgcaagg agtcctgcgc gctctcccag cagtccaacc 120

tggtgctgta cggcaggatc cagtgcaagg gcaagtgcac cgagcagaag ggcatcacgg 180

cgccggacat gaaagtctgc caggaggagt gcgacaaggc gtacgtggtg aaggccgccg 240

atgtcaccaa ggcctgcagc gtcacctgcg cctaggagaa gaacccgcgc cttagcgaga 300

actgcaagag gtcctgca 318

<210> 41193
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B5

<400> 41193

ggccacagga ccaccggcgg gctggccggc aagttctacg tggtgattga ccccagcgac 60

gacgccgccg acctcgtcac ccccaggaag ggcacgctcc ggcacgccgt gacccgggcc 120

cgggcgctgt ggatcacctt cgcgcgcgac atggtgatcg agctctgcca ggagctcatc 180

gtgagcagcg acaagaccat cgacgggcgc ggagcgcagg tgcacatcgt gggcgcgcag 240

atcacgctgc agaacgtgcg caacgtgatc cttcacaacc tgcacgttca cgacgcctga 300

gcgcacggcg gcggcgcgat ccgggactcg cagcacccac tgggccttgc gcggggagag 360

cgac 364

<210> 41194
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B6

<400> 41194

ccgcatcacc tctccctccg gcgcgcgcgt tcgggtacag cgctagagtc actcaccacc 60

atgcaggcgg cggcggctgc aaatggcgca ggctactttc acaagcctca gcagcagccg 120

ctggtggcgg gggcgccgcc ctcaccgtcg gcggcggccg tggtgtcgcc ccattgggtc 180

ggcatgccgt tcgcgccgcc tcctggggcc acggacatgg tgatgcagcc gcacacatat 240

ggcgccttcg ccgacataat tcgcgccgac tcact 275

<210> 41195
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B7

<400> 41195

caaaaatgct gcatgcgaga ggcttcttga acagagggtg gatgtaaaga tgaagtcaaa 60

aaagatgatg gattgcttga atagatttca tgttgctctg ccaaagcctc gtgacaacaa 120

ggagaggcct gtttgcatcc ctctggctgt tctggaagct agggctaatg ctgctgcaaa 180

ggaaaagaag cttgagaagg acattgagaa tgagaatgga ggtgctgggg tctattctgc 240

aagtctcaag aaacattata ttttggccaa tgatgaatgg aaggagga 288

<210> 41196
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B8

<400> 41196

catctattgt agcgtacttg ttatacagta ctcttccatc tctccttttt tccttgttga 60

tgccaaaatc aagtttacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaataa aaaaaaaaaa 180

aaaaaaaaat aaggggggat gttttaaagg atcaaagttt 220

<210> 41197
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B9

<400> 41197

gaataacaca cgtgagcacg accatcagga tcctatagct aataacatca tggacatggg 60

cgcggccctt gcatggctcg ttgggggcag ctcttgctgc tcccccaagg tctcaccccg 120

gccaaacatc accaccaact acaacgccaa gagactcacc cctagggcca cctggtacgg 180

tcagcccaac aagaccatcc actactgaca actgctggaa cctgcgcgat caataacatg 240

aacctgccac cctacagcgc catgacggcg tgccgcatct tccacatctt caacgacggc 300

aaggcctgcg gatcatgcta caaggcgaga tgcaaggaaa aacctgcatg atcgggcaat 360

ctcatcacgg tttacatcac tgac 384

<210> 41198
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C1

<400> 41198

cccacgcgtt cggctcattg gggaagggag ggtcatggag ctatacagtg tactcggggc 60

cttgttccat gtaagcgcca tccgagaccg agagttctct agcaagcctg atgtggggca 120

acagtgtttc tcagaggcat cttcacgtcg gccagctgac ttgttgtcat ctttcacaac 180

aatcaagagt gttatgaatg gcttgtatga tggccttaaa gatgtccttt taatccttct 240

aaaaaatttg gatactcgag aaaaggttct tgagtatata gcagaagtga taaataaaaa 300

tgcatccaga tctggcatg 319

<210> 41199
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C10

<400> 41199

gcagcacagt caattcaatt gggtatcaat gatattgttg tggctggtgg catggaaagc 60

atgtgcaatg ccccaaagta cattgctgaa gctaggaagg ggtctcgttt tggtcatgac 120

acacttgttg atgccatgct taaggatggg ctttgggatg tatacaatga ttgtgccatg 180

ggaatgtgtg ccgagctttg tgctgacaat catgccctca caagagaaga ccaggatgca 240

tttgctatcc aaagcaacga gcgtggaatt gctgctcgtg acagtcgtgc ttttgcatgg 300

gagattattc cgggtcaagt tcctgttggt ag 332

<210> 41200
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C2

<400> 41200

cggacgcgtg ggctctcaac cgagccatat ccaaagttct caacatcgct tcgtgcagcc 60

tgcatcggtc gacgagggct gcacgaacga tggggtccgc ctccgcctca gtgacgacaa 120

ccagcctgct ggcgctggcg ctggcagcgc tggctttcgt ctccagggcc gcggcgcagg 180

gcaacggctg ttccagcgtg atgatgaccc tggccccgtg catggacttc atctccagca 240

aggcgtcgga gccggggatc tcctgctgct cggtgctggc cggagtcgtg cagaccgacc 300

cccgctgcct ctgcatggta ctggacggca ctgccacgtc cttcggcatc ggcatcaacc 360

aaaccaaggg gcttgaactt cccg 384

<210> 41201
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A4

<400> 41201

cggacgcgtg cgcgaccacg atgaggatga ctaagatcat gatgacaact tcccaaacaa 60

cgggggggcaa gctctaaaaa acaagggctc tcaaaagaaa gatttgaaac atcacgtcat 120

tcaacacctc aagagatacc accatgaagt ggaaagggca tgtcaacaac gtgtcctgta 180

tggtaaagaa atcgtcgtaa ggggcaacga atcctgccaa atctaccaaa tgcaaacttc 240

agctctgaag cattgtttaa tcacttca 268

<210> 41202
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C3

<400> 41202

agaatccacc aaggacgatg gccatcgctt gacgatggaa tgctccactc ccgtctcctc 60

caggagccct tccactcgca agaagcgcgg ggcgttcagc ctcttcaggg cgatgttcct 120

gtccttcggc cggagcgacg acagcatgaa taagacagac gacgacacca cgagccccaa 180

gaagagagcc atcgcggctg ctgatgacga ttgcaagcct gccggtgacg agtcaacgtc 240

gcggaagcgc ctcgtggacg gtatgcgccc gctccgcctt cgcgggcagc ttgagtacta 300

cccggccgca accgcgccac cgttcgttgg ccacgccgat gtgtaccatg acgtgatcct 360

tc 362

<210> 41203
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C4

<400> 41203

tcgcgctgtg gtacgatcag cgtgggggcg cctgcatctt gcatgctcga tggcaggtct 60

atcctccact tcgcgcgtct cctgcgccct ccttgtggca tcggtgctgt cgcttccgcc 120

ggcggtgttt aaggtcggcg acgagcgggg atggacggtg ccggccaatg gcaccgagac 180

gtacaaccac tgggcaaaga ggaaccgctt ccaagtcggc gacgtcctga atttcaagta 240

tgccaacgac gactcggtgc tgctggtggc ccacgatgac tacaagcagt gcggcacggg 300

catcccgctg agctcgttta cggg 324

<210> 41204
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C5

<400> 41204

catacatggg catcattcgg actttaagag agaaggtgtc caaattaaag gctgcaagga 60

tgcgcattta tgtccggaga ggtggggcga actacacaac tggactcgcc aaaacgcgca 120

ccctatgcgc cgaacttgtc ctttcactag agggctattg accatcaggc caccatgtct 180

gggaactaga aagaagccat tgattgcatg atgggcgcgt gaatcacaaa tgtggtcgct 240

gcatttgaag ccacattcg 259

<210> 41205
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C6

<400> 41205

tggacctccg ggcacaggaa agacattgtt ggcacgtgcg gttgctcatc acactgactg 60

caccttcatc agggtgtctg gttctgagtt ggttcaaaag tatattggtg agggctcccg 120

gatggttagg gaactctttg ttatggccag ggaacatgca ccatccatta tatttatgga 180

tgaaattgac tctatcggat ctgctagaat ggagtctgga actggcaacg gtgacagtga 240

agttcagcgt actatgcttg aacttctaaa ccagcttgat ggttttgaag catcaaacaa 300

aa 302

<210> 41206
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G9

<400> 41206

cttaaacaga ttagcgatga tggtagaaaa gattagaccc tactagccag gtattaagtg 60

aacctcgcac attagaccaa ctgaaccatg agcaaaaaga tctaactcaa ctagtatagt 120

catgatgaat tacataatcg gactatccaa acttttgacc aacatcatgt agtctatctt 180

atctatgtct atcctaacca tattcctcaa ccctgatgat atacactaac atcgaatcaa 240

tgaggtcaag accggagagg aaaagatcaa cattaacaag gaaggatgta acagtcaaag 300

cgaatctcga gatgaatcaa gacttagatt tttcagatga agtttttgct atctttcgtg 360

tggggacctt cggcctccga aagttcttaa aaacaggatt taacagtatt tctggagta 419

<210> 41207
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H1

<400> 41207

ggccgagctc aggaaggcgc aacgcgtcaa ggagttcaag cctaccgtga gcttcccccc 60

cgtcaagtcg ttgctggaga aagagcaaga agcagacgac aagggaaaga agaagaaggg 120

gaagggcggc cacgagagga agaagccgtg cccggcgtac gtgctctggc tcaaggacca 180

gtggaccgag gtcaagaagg agaaccctga ggcagacttc aaggaggtgt ccaacacgct 240

gggcgccaag tggaaggctc tgggcgccga ggagaagcag ccctatgagg agcggtaccg 300

ccaggagaag gaggcctacc tgcaggtggt tggccaggag aagcgcgag 349

<210> 41208
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H11

<400> 41208

ctgttgtagt catttcgtca ttttgtgttc tggtgtctgc ggaagggcgt cctggatgga 60

gtccgccgac ggggcggtgt ggagtgctca tcggtgcgaa tgttgctgtc ttcctgctgt 120

ggcgtgtggc cgatccaggg ttcatgagga agcatttcat gatttcactg gacaatttca 180

agagtggacg gttgcacacc ttgctcacga gtgctttcag ccatgcagag tttaatcacc 240

tctttgccaa tatgtttggc ctcttcttct ttgggagcag tattacgaat gtgtttggtc 300

ctgcctttct attgaagttg tatgttggtg gagcacttac tggatcagta ttcttcttgc 360

tggagaaggc ttttctagcc tatcggaaca ggattatgta ggatgggata cttcaagagc 420

tgctgaactt ggtgcaagtg c 441

<210> 41209
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H12

<400> 41209

cgccaataca tttgccggcg acgacaccag ctgtgttgag gtcgtctgct cgccaaacaa 60

ccctgacggt ggcatccgac atgccgtcgt caagtccaaa tccagcaagg cgatctatga 120

cttcgcctac tactggccgc agtacacgcc catcaccgag gcggctgccc atgatgtcat 180

gctgttcacc ttctccaaat cctccggcca tgccggtact aggctggggt gggcactggt 240

gaaggacact ga 252

<210> 41210
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H2

<400> 41210

aggaggggac acacacacgt acaaaccgag agcacacacc gttccccgcc cgcccgccgc 60

cgcgacacgc gcgccatggc catgctggct cgctccgccg cgcacctctt cttcttcctt 120

ctcctcgtct ccaccgcgcc cgccgtgcgg accatccccg acgaagcccg cggccccgga 180

aacaacatcc acgaggcgtg cagcaagacg ctgttcccca aggtgtgcct gcacgcgctc 240

aaggacaacc ccgagtgcca ggcgggggcg gtcacgccgc gccggctggc cgagctgctc 300

gtgtacgtgt cggccgaggt gggcatgacc ggggccgcgt tcgcgcacca cgagctcaac 360

tccatcaagg acgacgtcct gtacaagtgc ctcgacacct gc 402

<210> 41211
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H3

<400> 41211

gccacttcag tgcttgcgat cgcgtcggcc acgatctctt gcgaaaaagc ttaccctgtg 60

tctgtctgtc cgaccgtcag tccgtctaac aatcgatttc catgacgacg tccccgcgcg 120

tgtggctgct cgccatggca ctggcgctcg cctgcgtgct gctcgtgagg tccgccgacg 180

ctgctgccga ggcgtccccg actccaggcg gctccacctá cgggtgcaac ccggccacgg 240

acaagtcgtg caagcccgag ggcgtggggg tggtgctgcc gggcggcggc atcgacctcg 300

acggcgacgg tgacgaggac gagctgccgc agtttcagcc ccacctcatg atcctcggcc 360

atggccactg atgagtgtaa atggttggtt ggttggtcgt cctcagccga tctactggac 420

gacacgatgg cggtcacatt tgcg 444

<210> 41212
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H4

<400> 41212

ctttcccaac tgaactattt ggagaggaag gtgatcgcct taggaaagct ggaatggaat 60

ttggcacaac aacaggtcgc ccaaggcgtt gcggctggct tgacattgtt gcgcttaagc 120

acagctgcca aatcaatggg ttctcatcac ttaatctgac caaactggat gttctgtccg 180

ggttgtcaga aattaaggtg ggtgtttctt atacccagac tgatggacag aagctgcaat 240

ccttccctgg ggatcttgat acccttgagc aagtacaggt caactatgag gttctgcctg 300

ggtggcaaag tgacatttct tctgttcgaa gatacgatga acttccccaa gctgcccgcc 360

tctatgtgga gaggatagaa gaacttgtgg tgttcccgtg cactacattg gtgttggacc 420

tggcagagat gct 433

<210> 41213
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-025-Q1-K1-H6

<400> 41213

gtgccgtacc gaatcgccgg gtcgacccag gcgacccgta gaagtggaat tgttgctctt 60

gatagagcag aagcagtaat tgagataact gaatgggttg aagtgccaaa gaagatattg 120

actctagaga gtaacatcac caatctgaat tcttcttctg aagtaggagc agctaatagc 180

acaacagata gtaaggaaaa tctgagttct ggcagtaata ctaattcgag cactcccatt 240

gatgagagta atgctcaaga aattattaca gagaaggtgc taaagaaaag aacttttagg 300

gttccgttga aggttgtgga aaaaacaact ggtgctggaa caattctttc gaaggagttg 360

tattctgaag canaaaatag gttagaggca ctcgataaga aggatgcaga acggaggaaa 420

actgctgaac ttaagaataa cctagagtca tacatata 458

<210> 41214
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H7

<400> 41214

cggacgcgtg ggctgcagtc atctcctcca ccaccaccac caagctcaac aacagccagc 60

tcgcgaaaat aatgaagagc cgcagcatgg catcatcggc cgcgctcttg gtgctagccc 120

tcgcgctagt ggcggccacc gccccacagg tagcggaggc aaagaagaag agagcggcgg 180

agagcggcga ggcggcggag gcgaagaaga tccaggacga cttctgctcg acgctgtgcg 240

agggcaagaa ggggacggac ctggtcgtgt gcaaggagtc ctgcgctctc tcccagcagt 300

ccaacctggt gctgtacggc aggatccagt gcaagggcaa gtgcaccgag cagaagggca 360

tcacggcgcc ggccatgaag gtctgccagg aggagtgcga caaggcgtac gtggtgaagg 420

cggccgaggt caccaaggcc tgcagcgtca cct 453

<210> 41215
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H8

<400> 41215

ctcaaacact atatctttca tgcttgtaaa tatcaatcca tccttttcat tcatcgagtg 60

ggcctcccac actatccgca gggagtcaat tacttaaact atccaacatt tcctttcttg 120

ccttaattat atctcataac gagcactatc ctaacttttt acttacattc ccattcttac 180

cactatttcc tctactccta accacattcc ataaacctgc ttatattcag taacttccta 240

aaaa 244

<210> 41216
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H9

<400> 41216

ctcaaacata tattcgttca tccttgacaa ttctaatcca tccttcgtat atatctagtg 60

ggccaaccac actaacccca gggagcaatt accaaaacta tctcacttat actcttttgc 120

cataatactt cacataacga tcacttccaa acttttcacc aacatcctct ttcctatctt 180

atttatctct accctaacca ttttcctgaa acctgcttat a 221

<210> 41217
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A1

<400> 41217

ggaaaaaccg aacgaaactg acatggaggg tggtggtctt gactatcacg ggtggcctct 60

aaggggggcac catggcccag aagctggaca tcgccggcat gaagtttacc tcgcgcactt 120

tcgccttcgc gacaaccaaa ctggtgccgg cgtgtacctt cgttatcgtc ctcatcttcc 180

actacgagaa gtacggcat 199

<210> 41218
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A10

<400> 41218

ttctcataca tcacagacaa tgaataccaa gaagaatgtt gttctttgct gccttctttt 60

cgtgctcgtt ctgcatgcag atcacgctct agccaagtgt ggctatacaa ctcctttaat 120

tccattctgc aaagcgtgga tgtgcaaggc ggagtgttgg acggaggcta agttaactgg 180

aggcaaagtc acgcaacaga agtgcatgag aggtgggatc aagggctggt gttactgcga 240

attctgcatt taattttgca aaggagaagg atcaccattt ctttgcttgg tcttgccttg 300

gtcaataact 310

<210> 41219
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A12

<400> 41219

ttcaaacata tctcatacaa tccataaaat ttataataaa aaacatttct aactattaag 60

agtactttct acatattcaa gggaccaaat ttacatacac ttctcttcca ctcctattat 120

ctacaatctt catatcaaaa tt 142

<210> 41220
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A3

<400> 41220

ggaaaaaccg aacgaaactg acatggaggg tggtgttctt gtctttcgcg tgtggcctct 60

caggggcac gatggcgcag aaccggtaca tctccagcat gaagttcacc tcggccactt 120

tcgcctccgc gacaaccaac ctcctcccgg cgtgtacctt cgtcatcgcc ctcgtctttc 180

gctacgagaa gttcgccatg cgcagcctgt ccagccaggc caaggtcgcc gggaccctgc 240

tgggcgtcgg cggggccatg ctgctcacct tctacaaagg cgtcgacatc acgccctggc 300

acaacaacct caatcttcgt tggcacgctt acccaacacc accatcacac caccaccacc 360

accaccaact acgccatggg g 381

<210> 41221
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G7

<400> 41221

gtcgtcttca gatgcataaa ggtgtttcac atcccttga tgttgtagca gctgagaggt 60

cagatgaggc catcatatgg tgtcttgatg agtttatggt aactgatgtt gctgatgcta 120

tgattctgaa ccggctgttc agacaattgt tcagcaaagg cattattctt gtttcaactt 180

ctaaccgtgc tccagataag ctttatgaag gtggcttaca acgggacctt ttcttgccat 240

ttattgacac cttgaaagaa aggtgcatcg tgcaccctat tgcatctgtg gtggactatc 300

gtcaactggg ttctgctgaa caaggattct attttgtcgg aaagcattac agtacgcttc 360

tgaaacagaa gcttcagtct ttaattggag aagaggaacc cagcccacaa actgttgaag 420

tatattatgg gtaggaaatt acatgttttt tt 452

<210> 41222
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F10

<400> 41222

cccagacctg cgaccgcgcc tgctcgtaaa ctccagcgcg accctcggag ccgtcgggtg 60

ggccacccac gctggcggcg tggataaatg ccgtaagctt ggccagtatt actctcaacg 120

cctgtggatg ctcaggacga tggtgtcgca gctgctgatg cacgtgcgca ttgagatcac 180

ctctgccaag gtcaaagacg ttcgcctgaa ggctgatcat atggtgcagg tagggatgga 240

ggatactcat catgcaacaa gacaagctgt tcccttcgat cgatgggatg atgaccttca 300

taaactat 308

<210> 41223
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F11

<400> 41223

acacatcgtc tatcagcgct cattcaacaa tccgagcgcg accaaggcaa taatggtgtc 60

gtgctcccgt gctgtcgtcg tggacgtctg ccttatggtc gccgagtcct ccctcgccgt 120

cgctgccttc gatggcaggg ggccgacgta cgggtacacg gacgtgagcc ccgacggacc 180

ggataactgg ggcaagctga gccccgcgta caagctgtgc gggcagggga agcaacagta 240

catgatcgac atcgtcacca agcaggccgt cctcaacgc 279

<210> 41224
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F12

<400> 41224

aattgcgcca ctgctcgtta tcctcctctt gcattgcatt gcaggtcgta gttgagcagc 60

agcaaccact gcacaggatg tcgtggcaga cgtacgtcga tgagcacctc atgtgcgaga 120

tcgagggcca ccacctgagc tctgccgcca tagtcggaca cgacggcgcc gtttgggccc 180

agagcaccgc attcccacag ttcaagccag aggagatgac caacatcatt aaggacttcg 240

acgagcctgg gtttctggcc ccgatcggcc tctttcttgg ccccaccaag tacatggtca 300

<210> 41225
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F2

<400> 41225

cttaagggaa ctcgagctat ttcttgagtg cctctccgta aggacctgtt cgttggatga 60

ccgctcggga aaacagtgca accatgaggg tggagtggga cgcccttagt tgagtaatta 120

gaggaactgg ggtgtagttc gcttcgccgt cgttccgtta atggggctcg gtgtatgcgg 180

ctcgctctgc caaggttggt tcgccccctt ggggaggagt tcggtgcatt taggaaaccc 240

aacgggtggc tacagcccta gaaaatcttt gtaaaggcta cgtagtgaga ccctgcctgt 300

tcactttggt agtgtttaag ggtttgatcg gcccgaggca agagggaatc acagcttgtg 360

ggtaaagtgc gcaacctctg cagagtatta tgaaactgat atatcagccg tgctcgcggt 420

tatgagcgtt caagggagct tcattgat 448

<210> 41226
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F3

<400> 41226

ctccctctgt cagatccccg ctcgggttgc catggcggac cagctcaccg acgaacagat 60

cgccgaggtc aaggaggcct tcagcctgtt cgacaaggac ggcgactgct gcatcaccac 120

caaggaactt ggcactgtga tgcgctcatt ggggcagaac cctactgagg ctgagcttca 180

ggacatgatc aatgaggttg atgctgatgg caatggaacc atcgactttc ctgagtttct 240

caacctgatg gcacgcaaga tgaaggacac cgactctgag gaggagctca aggaggcctt 300

ccgtgtgttc gacaaggacc agaatggctt catctccgct gctgagcttc gccatgtcat 360

gaccaaccta ggcgagaagc tgacggacga ggaggtggac gagatgatcc gggaagccga 420

cgtggacggc gatggccaga tcaactacga tgagttccgg aag 463

<210> 41227
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F4

<400> 41227

cggacgcgtg ggcggacgcg tgggcgacca ggtcatctcc gtcatcacca acgatggccg 60

caacatcgtg ggtacgctca ggggattcga tcaggccacc aacattatac tcgacgagtc 120

ccatgagagg gtctattcta gaaaggaggg agtccaacaa cttgttcttg gtctgtacat 180

tatcaggggt gacaacataa gcgttgtggg cgaggttgat gaagagctgg attcaagatt 240

ggatatgtcg aagctaaggg cgcacccact gaagcctgtt attcactgaa gtccgagtat 300

gtctttgggt aatatgtgga ctggatggat gggtcactgt tgaatgcaag atgtaacatc 360

atcatggtga ggggactgaa gtatatggac atgtatcttg cgta 404

<210> 41228
<211> 117
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F5

<400> 41228

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataataaaa aaaaaaaaaa aaaaaaaaaa 60

aaggggggaga aaaaaaaaaa ataaaggtgg gtctgccaat tctaaagttc ctttctt 117

<210> 41229
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F6

<400> 41229

gcgtttgatc ttcgctggca agcagctgga ggatggccgc acccttgcgg attacaacat 60

ccagaaggag agcaccctcc acctggtgct ccgtctcagg ggtggcatgc agatctttgt 120

gaagacactc actggcaaga caatcaccct tgaggtggag tcttcggata ccattgacaa 180

tgtcaaggcc aagatccagg acaaggaggg catcccaccg gaccagcagc gcctcatctt 240

cgccggcaag cagctggagg atggccgcac cctggcggac tacaacatcc agaaggagag 300

cacctccac ctggtgctcc gcctcagggg tggcatgcag atttttgtga agacattgac 360

tggcaagacc atcaccttt 378

<210> 41230
<211> 110
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F7

<400> 41230

cggacgcgtg ggcaagttcc ccggcgcgca ggtgctgctg gccgagttca acatgacctc 60

ggcgggcggc gcgcagaact tcaagtcgca ggcggacaac ttcgtgtgcg 110

<210> 41231
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F8

<400> 41231

cggacgcgtg ggcgggacta cgccaaaaaa gaggaggtcg cgccgctccc tcacgcccac 60

taaattcaaa gtcaagaaat acaagatgaa ggccccctcg tccatgaagt tcagattcag 120

aaccatgaaa gacggacagg tccgcaggtg gagggccggc aagcgccaca atgcacacct 180

caagtctaag gaggccaaac ggagacttcg gaagcctgct ttggtgcatt tggcctacgc 240

aaaggttata aagaagctca acttctgtgg gtagcaaatc aataaagaca tagcggagtt 300

tggcatggga aactagttaa ctgatactga ccgccaaccg ctgcatctca gttgtaaacg 360

ctggagcctc tccttggacc aaatacttgc tttttgtcac atgatgcatt atctcgt 417

<210> 41232
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F9

<400> 41232

cttaaacaga ttagcgataa tggtagaaaa gattagaccc tactagccag gtattaaatt 60

aacctcgcac attagaccaa ctcaaccatg agcaaaaaga tctaactcaa ctagtatagt 120

catgatgaat tacataatcg gactatccaa acttttgacc aacatcatgt agtctatctt 180

atctatgtct atcctaacca tattcctcaa ccctgatgat atacactaac atcgaatcaa 240

tgaggtcaag accggagagg aaaagatcaa cattaacaag gaaggatgta acagtcaaag 300

cgaatctcga gatgaatcaa gacttagatt tttcagatga agtttttcct atctttctgt 360

tggggacctt cggcctccga aggtcctcaa aaacaggatt taacagtatt tctggagtat 420

aatgtgtgaa ca 432

<210> 41233
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G1

<400> 41233

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgga cgcgtgggcg aagctggagg 60

tgtggctaga ggtggagtcg caccacttct acccgaacgc gtcgccgctg gtgttccagc 120

tgctcgtgag gccgctcctg ggcggcgccc ccgacgcggc ggtggtggac aagcacgcgg 180

agcagctcgc caaggtgctc gacgtgtacg aggcgcacct cgcccgcaac aagtacctcg 240

ccggggacga gttcacgctc gccgacgcca accacgcgtc ctacctgctc tacctcagca 300

agacccccaa ggccgggctc gtcgccgccc gcccccacgt caaggcctgg tgggaggcca 360

tcgtcgcccg ccccgcgttc cagaag 386

<210> 41234
<211> 219
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G10

<400> 41234

ctcataccta cgtacgcggc tgcgtgtaaa ctcaaggcca tccttggcag tgacggcgtg 60

ggcctcgcgg gctagtcttg ggggatcctg ccgtaacctg gggcggtgat actgtacagg 120

tgtgagatac tacaggacaa cactcacgaa gcttttcagg aacgtactgt tcgagaccac 180

cgctatgtct ttcttagctg tatcccctac aacagctta 219

<210> 41235
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G11

<400> 41235

acacaacgtc tatcagtgct tattcaataa ttcgagcgcg accaaggcaa tcatggggtg 60

gggctaccgt gctggcggcg gggggggaatg ccttatactt ggcaagttct actttgaagg 120

cgttagcatc catagcaggg ggccgacgta acggttcaag gacgagagcc tcgacagcac 180

agataacagg ggcaagatga accc 204

<210> 41236
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G12

<400> 41236

acaaaacgtc tatcagtgct tattcaacaa ttcgtgcgcg accaaggcaa taatggggtc 60

gtcctcccgt gctgacgggg tgggcgaagg cctaaagctt gccaagtcct ctttcgacga 120

cgttagatac ga 132

<210> 41237
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G2

<400> 41237

catcgtcact cactgcatcg ttcgttcatt catcaactac tggaaattag agagccgcat 60

ctcttggtcg gagaacctgc gaggaaggac taaagagtcg aagatgactg cggcggtgct 120

gtccgagcgc acgacgacta cgttgctgct agcagcagtc atcctgggcc tctgcatcgt 180

tttcctctcc ccccgcggcg ccgctgtcgc agcgggtctc ccccggcgcc agcccgatcg 240

tggccatctg catgacgggc ccgtactcct gagctgttct tgggggagct g 291

<210> 41238
<211> 92
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G3

<400> 41238

gtttttgctg tgtgcaggtg aggaggcact tccgacccga gctgctgaac cgtctcgacg 60

agatcgtgat cttcgatcct ctgtcccacg ag 92

<210> 41239
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G4

<400> 41239

ggaaggtctt cgggaattct gttcagcaga atccgagtcc actagccctc ctcagtcctc 60

cccagggatt tcgacttccc cgagacacca tcgctacgac gagcaagcag agcaccatct 120

cggctgcctt aaactgtctc tccgccggat actacacccg ccgccgcagc gccgaccttg 180

tctcaatcga gcggagcggg cgatcggatt ggttgcttcc ttcccccatc tcatgttggt 240

ggactgagag atggagtttt gatttcaaat agcatctaga gaactgccac taagttttta 300

agttagtata taatgggtgg ctggtgttgc tgttcgtcga gaacatctga agccgataga 360

gcaccaattg atatatatcg tcaacaaaat cttgaagagc atgagcccgc tg 412

<210> 41240

<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G5

<400> 41240

gggtttcaca gcgacgcttc cccaccacca ccgtcgtgga gatgcagacc ctcgtgccct 60

ccactacggc ttcttctgca agggctatgg caccgagatc ggtgagacgt tgtgcccgga 120

gatcttgtgc gaggagagcg ccatccacaa ggctcgttcc acccaccacc gttggccggt 180

cgtgcaattc tctgtagctg tatgagcatt tggagcctca tccctggaca agggggcgat 240

ttattcattg gagtaaactg catttaggtt gcacaagatt cagttttgct tagaccatca 300

gataaagtca atcatagcat tggatcatct aaaaattata tttatatgga tggtcaaatg 360

tgagattgga catgagagag actgcaaatt tgtctgatgc aaaaa 405

<210> 41241
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G6

<400> 41241

caaacctgca gtcatctcct ccaccaccac caccaagctc aacaacagcc agctcgcgaa 60

aataatgaag agccgcagca tggcatcatc ggccgcgctc ttggtgctag ccctcgcgct 120

agtggcggcc accgccccac aggtagcgga ggcaaagaag aagagagcgg cggagagcgg 180

cgaggcggcg gaggcgaaga agatccagga cgacttctgc tcgacgctgt gcgagggcaa 240

gaaagggacg gacctggtcg tgtgcaagga gtcctgcgct ctctcccagc agtccaacct 300

ggtgctgtac ggcaagatcc agtgcaaggg caagtgcacc gagcagaagg ggcatcacgg 360

gccgggcatg aaagtctgcc aagaagagtg cgacaaggcg tacgtggt 408

<210> 41242
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D5

<400> 41242

tgataagatc attatgttaa ttggaacatg gagcgaccac ccgggaaaac agtgctacca 60

caagggttta tggacgccct tggctgatta attaggaaag ctagtggagg actaccttac 120

tcgaaagggg caagggcagt aggggagtgg tcagtgtagg gaggtccttg gttgattttg 180

ctgcgatggc ggtgaaaggg aaatgtgccc ttgggccatt ttaagtattt tgttgattta 240

gtgtctaaca caagtgctta aatgtaaaat ggtggacaaa gtacaaacca aggataaagg 300

tatgtttctc agacttagta catttgttta tgg 333

<210> 41243
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D6

<400> 41243

gtcatcaccg gcaagggaaa ccttgacggg cagggcccag ccgtgtggag caagaactcc 60

tgcaccaaga agtacgactg caagatcctt cccaactcgc tggtgatgga cttcgtgaac 120

aacggggagg tgtccggggt cacgctgctc aactccaagt tcttccacat gaacatgtac 180

cggtgcaagg acatgctgat caaggacgtg accgtgacgg cgcccgggga cagccccaac 240

acggatggca tccacatggg cgactcatcc gggatcacga tcaccaacac cgtcattggc 300

gtcggtgacg actgcatctc catcggcccc gggacctcca aggtgaacat caccggcgtg 360

a 361

<210> 41244
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D7

<400> 41244

cacgaccatg atgttattag cgagggatcc catcgtcgtg ggtgtcgatc ttgcagcgct 60

ggtccacgac gtgatatgcg ggccttcgaa ggtgactcta aggtcccaac atctcgacca 120

attactattg ctagtgtctc acccccatgg tcacgtgcta cattgagtct aatcttgcac 180

gagttgctga caactggtgg tcgtgggcta tcaagaatgt gtacacggca tcctacacca 240

ggatgaagat gtgtagctac gagctcattt ttaatgaacg gcagggttgc gtgtaatact 300

atgaggtgac ataccatgaa aaacctgggt gctcaggcaa t 341

<210> 41245
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D8

<400> 41245

ctccagcagc ctcaaggatg tccaggtcgc cttcagcaac gccgaccaca aggacagcgg 60

cggcaaggtg gaacagccgg cggacagctc cttgaagccg gcgagcctga acgcgttcga 120

catcatctgc cactccagag ggttcgacct gtcaagcctg ttcgaggtgg accaagagca 180

gaaggccagc aactcgcggt tcatgaccca gaaaccggcg tcggcgatag tgtcaaagct 240

ggagcagatc gctgagacag agcgcttcat ggtgaagaaa caggacgggc tggtgaagct 300

gcaggggtcc aagcaaggga agaaggggca 330

<210> 41246
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D9

<400> 41246

ggagctggtg gcgctgtccg gcgcccacac gctgggcttc tcccactgca aggagttcgc 60

cgaccgcctc tacaacttgc gcaaccaggg cgggaagccg gagcagttcg accccagcat 120

gaacccgtcc tacgccaggg ggctgcagga cgtgtgcagg gactacctca aggaccccac 180

catcgccgcg ttcaacgaca tcatgacgcc cggcacgttc gacaacatgt acttcgtcaa 240

cctcgagcgc ggcctcggcc tgctcagcac cgacgaggag ctgtggacgg acccacgcac 300

caagcccctg gtgcagctct atgcatgcaa cgccacagcc ttcttcgacg acttcggccg 360

cgccatggag aagctcagct tggtcggcgt caagaccggc gccgactgcg aggtcaggcg 420

gcgctgcgac gcctacaaca gcggacccgc cgtcgccgcc 460

<210> 41247
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E10

<400> 41247

cccggacccc ggaccgcgcc ggctcgcaga ctcctccaca accctcgtcg ccgccggctg 60

ctccaccccc gccaccgcca tgggtaaatt ccgcaagctt ggccgcaatt actcccaacg 120

cctctgcatg ctcaggacga tggtgtcgca gctggtgaag cacgagcgca tcgagaccac 180

cgttgccaag gcgaaggacg ttcggcggaa ggcggatcag atggtgcagc tagggaagga 240

gggtactcag catgcagcaa gacgtgctgc tgcctttgat cgaagtgatg atgtccttca 300

taagctattt actgagctgg cctttcgcta cagagatcga gctgggggct acacaagaat 360

gttaagaacc aggatacgtg gtggtgatgc tgctccaatg gcctaca 407

<210> 41248
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E11

<400> 41248

cccacgcatg cgtggactca tatgccttgt ccgaatcgag gctatcagag tatacgcgca 60

gggcagagat cacgacctgg gggacgacta atctactgtt aacgagggct cgaatgcttg 120

agctagctgc aagactgaca ctgcctttaa gttcagcgaa ggaatctggt gggacgctaa 180

gcttgcccgg tacgcaatcg gcgccaaact gaagcttgtc ggatgagagg tctgcactga 240

acagcttact atggtaacct aaaaatcagt ggcatatgcg ataaatgata ggtgaaccga 300

gctaatctaa cgcgaagggg cacgagtact actccacata tgaaccggag cgttctatga 360

ccacgcttga catgtgcatg gcagagcttg acg 393

<210> 41249
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E12

<400> 41249

agcaaacctg cagtcatctc ctccatcacc accaaactca acaacagcca gctcgcgaaa 60

ataatgaaga gccgcagcat ggcatcatcg gccgcgctct tggtgctagc cctcgcgcta 120

gtggcggcca ccgacccaca ggtagcggag gcaaagaaga agagagcggc ggagagcggc 180

gaggcggcgg aggcgaataa gatccaggac gacttctgct cgacgctgtg cgagggcaag 240

aaggggacgg acctggtcgt gtgcaaggag tcctgcgcgc tctaccagca gtccaacctg 300

gtgctgtacg gcaggatcca gtgctagggc aagtgcaccg agcagaaagg catcacggcg 360

ccggccatga aagtcttcca agaagagtgc gacaagg 397

<210> 41250
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E2

<400> 41250

attttcttat acaaactcag cattcagccg gtcagttgag gaacaggaag aattctaatt 60

ctggtagagc aaaagtttct gaaagtacag atatagttac atttgctgat gtggctggag 120

tagatgaggc aaaagaagag cttgaagaaa ttgtggagtt cttaaggaac ccagaaagat 180

atgttcgtct tggtgctcgc cctcctcgtg gtgtcttatt ggttggtttt gcaaatgcta 240

tcagtaatgg caattactgc ttgacaattg tgtttgttac catattgtta ttctttatct 300

acaggtgggt cttccaggga ctggaaagac acttcttgca aaagccgtag caggagaagc 360

agaagtcccg ttcataagtt gctctgctag tgaatttgtt gagctatatg taagcatggg 420

agcagctcga gtacgtgacc tatt 444

<210> 41251
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E3

<400> 41251

gtcagcttgc aattctggtg tctggtgctt ctcggttcaa caactagatc cattgattat 60

ataggacaat gcgctcgaca atccatttag ttccttgtcc acaacatttg aggcagcttt 120

atatagttcg aagtatttca atgtataggc tacaactgaa ttgttcatgt aactacatcc 180

tacttgctta gcagtgttta ttacaaaata accatatgct ttcacgatgc ttttaatttc 240

acatgaagtt gccttgagtc gtgcaaaagt attacttcac tccttttttc tcttccttta 300

tcatctatca tattatgatg taatttggaa caatgcctta aaaaacttat gttgtaggct 360

atcatgaagc tttctggtca aagtcccaaa agaatgagag acctatcaag tttgtgggtt 420

tcactccctt cccacctcat cctttctgtg tctac 455

<210> 41252
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E5

<400> 41252

gcggcacggg gccgcgaaga tctttagcca ccctgacgtc aaggctgagg aaccatggtt 60

cgggattgag caggagtaca cccttctcca gaaggacacc aagtggcctc tcggttggcc 120

gctgggcggc taccctggcc ctcagggacc ttactactgc gccgtcggag cggacaagtc 180

ctacgggcgg gacatcgtgg acgcgcacta caaggcctgc ctctacgccg gcatcgacat 240

cagtggcatc aacggggagg tcatgccggg gcagtgggag ttccaggtcg gccctgccgt 300

cggcgtctcg gccggcgacc agctctgggt ggctcgctac attcttgaga ggatcaccga 360

gatcgccggc gtggttgtct ccttcgaacc caagccaaat tccggggact ggaatggcgc 420

t 421

<210> 41253
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E6

<400> 41253

ggcgatggct gggaagggag ggaaaggctt gctcgccgcg aagactacgg cggccaagtc 60

cgccgagaag gacaagggga agaaggcccc aatctcacgc tcctcccgcg ccggcctcca 120

gttccctgtt gggcgtatcc accgtcagct gaagcaaagg actcaggcaa atggtcgcgt 180

tggtgccacc gcagccgtct actccgctgc catcctggag tacttgactg ccgaggttct 240

ggagctggct gggaatgcta gcaaggatct gaaggtgaag cgtatcaccc ctcgccattt 300

gcagctagcc attcgtggag acgaggagct ggacaccctt atcaagggca ccatcgcagg 360

cggaggtgtc atcccgcaca ttcacaagtc cctgatcaac aagtccttcc aggagtgaaa 420

acttagggat gtgcatcttt agtttaaact agactttt 458

<210> 41254
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E7

<400> 41254

cgccgactct gccgtctccc tcgcctcttt cccctcgtct cgtctgcatc cgcctccgcc 60

ggcccaagac ctcatcacct ccccttcgcc gtgaacccta accccgcgcc cctcgccccc 120

tccttctcgt cgtcatcgcc gcccgctttt ccgggccccc atcgcctctt ctctttcacg 180

agtggttcaa gcatggtggt cgtgggctcc gcggactcct tcaacagcat cttttccaag 240

gtgcaagatg aaaagctacc agctgtcttt tactacacgg cggtgtggtg tggaccatgt 300

agggcgatcg caccttttagt atcaaagctg agcagccagt atcccaagat accggtgtac 360

aaagttgaca ttgaattgga aggactgtga aacaaactcc gtgatctaaa catatgttca 420

gtgccgacgt tccacttcta tcac 444

<210> 41255
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E8

<400> 41255

caagctgcca gccttccagc agagcaagca ctgaattacg atgatcaaag tggaaacctt 60

gcgccacctc cttgggaggc tcagccagcg gcaagcaacg aaatgccaaa tggtgaattg 120

ggaggcgtgc aacctcttcc tgggacagct gggcagttcg gcggcatgca gcaggcactg 180

caaccacaag ttaaccacat gggagttcca caaaggcagc caatgtacag caaccagcca 240

ggggttgtgg tggcgccaac acagatgcag gcaggcttgg ggaaccagca gttgggttcg 300

acatccatga tgggcatgcc tccacagatg tatggcggcg gatcgcaggc agccatgatg 360

taccccgcac aaatgccagt ggcgccgcag caacccatgt attgtggtgg tgtcgtctgg 420

cagggtacat gc 432

<210> 41256
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-025-Q1-K1-D4

<400> 41256

ctcgaccatc cctgcaaatt accgcgatgg ctcccaagat cctagtcatc cttgtgttcc 60

tcgccgtggc ctcaccggct gctctggccg ccttcgatgt gatagagatg ctggccgaca 120

agcccacgta ctccacgttc ctgaagctcc tgcaggacac caaggtcgcg ggcgaggcga 180

atcagctccg gtcggcgacg ctactggtcg tccccgacaa acttgccaag cctctggcgt 240

cgctgcccgc cgataaggtg cggccggcgg tggagaacca cgtccttctc agttacttcg 300

accccatcaa gctggacgag atgaagacac gcaccgncat tcttcccaag ctggtcttcg 360

gcaacgaaca gaaactcggc gtcctcaact acaccagggc cgacgacggg cagatgtact 420

t 421

<210> 41257
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-025-Q1-K1-C11

<400> 41257

gtggacgaca ccggcgtcgt cgaggtggat gccggcgccg ccaatgcggt ggcgctgccc 60

gtgaagcccg ccttgcagct ggaggaaaag ggggagctgg agaaggaggt gtgggcgagg 120

ttctacggca ccggcttttg gaggagcccg tcgcagctgg acgacaacga cgacaggtga 180

tcgggacagg cccgcgagcg agctatccac aagctcctcc ggcgatgcgt gggcttcctt 240

cgttttccgc gggaagaaga gaggatcgag gaaagggaaa catgattgtg tgttcgatac 300

tacgattacg aacttcgntt tcccttcttt tttggttgtt tggaagggga aatacttctc 360

ttctattcta caacaatgtc acgtacatgc aatgtaataa taaaaaatgt atgtgatata 420

tttaacaatg tgattgatga 440

<210> 41258
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C12

<400> 41258

cccacgcatg cgaccagagg ttcagttcgc tctcattggg gccaccgcct acttattggc 60

tacactagcc cgcggatgcg agggcttctt gtgtaccatc gaggaggacg cgcctggtat 120

gattaccttg aatactagac tccggaacaa agctgaaatg gtgcatactc gatgctgcaa 180

gagcaattac tgaactgaat ggtgtcacaa gcctagatct tacacttaga agtactgcgc 240

tgtatatgtc tataagtaca ttcaaacctg ttcttagat 279

<210> 41259
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C2

<400> 41259

cgatatggca caggcaaggg aatgcgagaa gtacagtgag cgatttgttg gggcatgcat 60

gatcgcagac aactgcgcca atgtgtgccg cggtgagggc ttcttggccg gcaggtgcag 120

caccttccgc cgccgctgca tctgcactag gcagtgctaa acaagatcgc tcgatcgctc 180

gccatgcatc gacaacctat tcttaataac gttcattatc tcgttcttat ttatgacgaa 240

tgtcatgtat gttctggtga ctgtcatgta tattctgatg actgtcatgt atcttgttca 300

tgtatgctca aggttcatta tcttgttcat gtattaagta tgttatgaat aactcaatat 360

ttattatttt gttc 374

<210> 41260
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C3

<400> 41260

tgcaacgttg attgtacttg tgacagtgac aaaaaacagt gcacttatga aaggcagtat 60

gctgaaatga gctccagcag tggggtgctt ggtgaggaca tagtgtcttt tggcagagag 120

agtgaactta agccacagca tgctattttt ggctgtgaaa attctgaaac tggagatttg 180

ttcagtcagc atgctgatgg tataatgggg ctgggtcgtg gtcaacttag cataatggat 240

cagcttgttg aaaagggtgt cataagtgat tcgctctcat tgtgctatgg tggcatggat 300

attggtggcg gtgctatggt actcggtgga atgcttgctc ctccagacat tgatttttca 360

aactcggacc ctctccgcag cccatattac aacattgagt taaaagaaat acatgttgct 420

tgaaa 425

<210> 41261
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C4

<400> 41261

cctcaactac accagggccg acgacgggca gatgtacttc ggcgctcccg gcgccccctg 60

cgtggccaag ctcgtgaagg tcgtcgcagc gcggccgtac tctgtgtcca tcatggagat 120

cagcgagccc attttgccgg ccgcgttgcc ctcccccgtc gcggcgcccg gccgccgcgg 180

caagggtggt aagcgcaaga tcaagccatc agcggcaacc catgaggatt ccaacatgat 240

cccgcgcaag cccgtcgaag cagtggtggt gggtaagggt aaggtggcca aagataccgt 300

gtccgagtca cctgctccaa gccccgcccc cgtctccgcc ccttagttgc gtgttgggcg 360

ccgctgcccg ccggcccccg gccaccatgc gtcgtgtctg cgcgcgcacg cacgcattga 420

acgggagata gaatatggta tc 442

<210> 41262
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C5

<400> 41262

cggacgcgtg ggccgtgaag ccgaggacac tacttgcaca tctagtggac cattctcaac 60

cagtgaccca cagaaaaata caattatgct gcagcttgga tatccaatca ggaccaagct 120

cggaataata ggagattcat ggtgtatgtg cactcgaaag gcatgattgt ggatgatgaa 180

tatgtgataa ttggatccgc taacatcaac cagagatcca tggaaggaac tagagataca 240

gagattgcaa tggctgcata ccaaccccag catacattgg caaatatgct ttctgctcct 300

cgtggataga ttttcgggta caggaaaata cagtgtacgt gttgaaactg ttatcctgcc 360

ccaggttggg atagacggtg gtacattcgt gttggtagaa ctgtgagaag aaaagatggg 420

aaaactttgc tttctttgct gtgatgatta 450

<210> 41263
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C6

<400> 41263

ctcgtcgtca cgccatccct ctccacctct cgtcttccag acgcctccaa tccgggctcc 60

cagcgtctcg gaaaagagga gcagcacggc acggcggcga tggcgaggaa cgctccaata 120

atatgctaac ccgttctacc cagtccaatt agcagcctcc caaggagaag gagatccaat 180

cctgcgggcg ggcgtccccg tatcccatcc atcgatccga atctcggaat ctgcaggacc 240

ctgcggcgcg gcttcttcgt ggagaagagg ttgctgccga agccaccgcc aggtagccat 300

gtcgtcctcc gtgctgaggg ctgcggccga cagggccatt cgca 344

<210> 41264
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-025-Q1-K1-C7

<400> 41264

ctcaacgaca agattcgcca ctgcggcatc atggacgtcg agttcagaag ggtgcgatgc 60

aggtaccccg ccgggcagaa gatcgtgttc cacatcgaga agggctgcaa ccccaactac 120

ctggccgtgc tggtgaagta tgtggcggac gacggcgaca tcgtgctgat ggaaatccag 180

gacaagttgt cggctgagtg gaagcccatg aagctctctt ggggcgccat ctggaggatg 240

gacactgcca aggcgctcaa gggccccttc tgcatccgcc tcaccagcga gtccggcaag 300

aaggtcatcg ccaaagacgt tattccggcg aacttgagac ccgatgccgt ctacactttc 360

aacgtncaat tctactagac tttgaat 387

<210> 41265
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C8

<400> 41265

ctcaaacttc ctcacattcg ttcaggttat cttcaccaat ctcatctaca atg 53

<210> 41266
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-025-Q1-K1-C9

<400> 41266

cccacgcgtc cgcccacgcg tccgatcctc cgccaccacc aggctctggt gtctacagtc 60

ctgcaccccc tgcaccaggt caagctgccc cacctccgta tgggatgcaa tatccaccac 120

caccaccacc cccagcagct ccaatccctc caccaggcac tgctccatca agtgatggag 180

ctcagaacta tccacctggt gtaacaccac caagttctgg ctcatccact caccctgttg 240

caacatcagt atatgcatca tctggtgcac caaatgcacc atcgatatac cctccaccac 300

cttatagtta ttcctcatac taccctccac catttcagcc accacctnca ccaccaccac 360

cggctagtgt tgatccctct cagagtattg caactgcacc ttggctaacc cacagtgtgg 420

tggtgccacc accacccgcg agtgttgatc 450

<210> 41267
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D1

<400> 41267

cggacgcgtg ggcggacgcg tgggctcgga accggaaagc aaacaagtcc agtacgccaa 60

gaagtacgtg caggactcca agaacacgac ggacaagact atggtgccgc ccaccgtgta 120

cccaccgccg caggccatgg cgtccgcata cccgccgcaa caatattgtt cgccgtacgc 180

ggcgtacccg cggcagcctt acgggtaccc tgctccgcca ccgtacgggt acaatgctgc 240

ttccccacaa ccggcgatgt acaactacgc agcacagccg gtagctgcac cggcgaggca 300

tggcggaggt atggggatgg ggctcggcct agggctccta ggcggtgcgg tcgggggat 360

gatgctcgga gaggcgatcg gtgactatga gaccgacgcc gcttatgatg ccgggttcaa 420

cgatgcattg gcattttaga tctatg 446

<210> 41268
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D10

<400> 41268

cccacgcgtc cgcaggaact tccccccgca gctgacgcct ttgtactaca accagtcggg 60

gccactgatg cctctgctct gcaacccctt cacgcctgat ctgagggacc gcaactgcag 120

cagaggagag gttaccttgg acaacgcaac ccaggtgtgg aagaagtacg agtgccagag 180

caccaccgtc tcaggaggag ccgagatctg cgcgacggtg gggcgtgtga cccccagcat 240

ctacgggcag atgaccgcgg gcgtgacggt gagccagggg ctgtaccagt acgggccttt 300

tctcatccag ctgcaagact gcaccttcgt gcgcgacacc ttcacgacca tcaaccaagg 360

ctactgcccg gagctggagc gctacagcaa gtgggtgtac gtgggcctcg tgatggtctc 420

gttggc 426

<210> 41269
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D12

<400> 41269

agcacacctg ccaacactca gcaacagcca ggcccttcac atgtaccagt gcctcagcga 60

acagtaaaga catttactcc ggcgaaccca gctggtctaa aaaacccggg acaatatcag 120

caacctaata ccttaggttc ccagctttac acgggcgcta cgaatcaacc gtattcttct 180

ggaccatctg ctccttatcc aagcggacct ccaacaacat ttcatcagcc tgtagcacct 240

gttcaatatc agagtgctgc tccaccagta tcttcttttg gtccaaccac ccctgtacca 300

ggaacagtcc ctaaccagat gttttcccat tctgctgcta ctaactcgac ttgcaggttt 360

atgccatcga acaatcaaag ctttgctcca aggccaggtt taagtcctgt gcagccctta 420

ag 422

<210> 41270
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D2

<400> 41270

atggctggtt cgtggatgcc ggcgccacag cctctcctgc tgtcgctgct ggtcgccgtg 60

ctagcggtgg ccgccgatgt cgccaacgcc ggccacgcca agcccctgac gcctggcggg 120

cgcgtggtac accacaacca cggcaagttc acggccgggc cgtggaaacc cgcccacgcg 180

accttctacg gcgggcggga cgggtccggc accacggcgg gcgcgtgcgg gtacaaggac 240

acgcgcgcgc aggggtatgg cgtgcagacg gtggccgtga gcacggtgct gttcggtgac 300

ggcgcggcct gcggcgggtg ctacgaggtg cgctgcgtgg acagccctag cgggtgcaag 360

cccagcgcgg cgacactggt ggtgacggcg accgaccttg tgcccgccaa cgacc 415

<210> 41271

<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D3

<400> 41271

gagaagaagc agtcgaaccc gatgcgggag atgaaggtcc agaagctcgt gctcaacatc 60

tgcgtcggcg agagcggtga tcgcctcacc cgcgccgcca aggtactgga gcagctgagc 120

ggccagtcac cggtattctc caaggcaagg tacactgtga ggtcgtttgg gatccggcgc 180

aatgagaaga tcgcatgcta tgtgacggtg cggggtgaga aggcaatgca gctgctggag 240

agtggcttga aggtgaagga gtacgagctg ctgaggagga acttcagtga cactggctgc 300

tttggatttg gcatccaaga gcacattgat cttggcatca agtatgatcc atctactggt 360

atctacggca tggacttcta cgtcgtcctt gagcgtgctg ggtacc 406

<210> 41272
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C10

<400> 41272

cacattcttc catcgatcgg tttcatcgtc cgccaacatc cttcttgatt gttatttgtg 60

caacacccag ggcggcaggt gggaggacat gagctaccat tgaaccatgg ttgcagcccc 120

agtacgcgct tgagtgctgg tgctggctct agcac 155

<210> 41273
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A2

<400> 41273

gagatttggt gatccaagta gatcagaaga atgaagctgt cctcttacct atttatggta 60

ggatggttcc tttccatgtt tctactgtca agagtgtgac aagtcaccag gacaaccgca 120

cctgcactat ccgtatcttc ttcaatgtgc ctggcatgcc attctcaaat gatagcaagt 180

ttaattctca aggtgctatc tatctgaaag aaattacatt ccg 223

<210> 41274
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A3

<400> 41274

ctgcagtcat ctcctccacc accaccacca agctcaacaa cagccagctc gcgaaaataa 60

tgaagagccg cagcatggca tcatcggccg cgctcttggt gctagccctc gcgctagtgg 120

cggccaccgc cccacaggta gcggaggcaa agaagaagag agcggcggag agcggcgagg 180

cggcggaggc gaagaagatc caggacgact tctgctcgac gctgtgcgag ggcaagaagg 240

ggacggacct ggtcgtgtgc aaggagtcct gcgctctctc ccagcagtcc aacctggtgc 300

tgtacggcag gatccagtgc aagggcaagt gcaccgagca gaagggcatc acg 353

<210> 41275
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A4

<400> 41275

ctttcaagcg cctaggctgc taccttagaa tcaagcctgc ggtagagggt ataacctcgc 60

cggagaagac agctatctcc atagaccgaa ggaccttcca aattgaaaat aataataata 120

tgagatcagt ctgggctggc ttgggcagga agcgaacagc gcagtataca attgcccctt 180

tgcagagctt gtcgcttgga gtttaaggct gctggtggca agaatacatg gcaaagtcag 240

tcgtaaattc atactgtaat acatattcct taggcatgcg aggcaatatt tgcccagagc 300

caagctgcgg acaagctgcc atcgctgtcc gtccat 336

<210> 41276
<211> 159
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A5

<400> 41276

aaatgatgag atcatggcta ggggaacctt tgccaacatt cgtcttgtga ataagttctt 60

gaagggtgag gttggaccca agacaatcca tgttccattt ggggggaacc ttgcagtttt 120

tgatgctgtt ttgaaatcca aaattgaagg gcttgccct 159

<210> 41277
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A6

<400> 41277

aatcatcaac tgggaaagca tatgcttctt cagttgatga tttgcttggc ggggaaccta 60

ttgctgatac aagtgtcact gctgatagca atggaagcga tccatttgca gatgtatcat 120

tccatgaggt agaggctaag gagactaatg atctcttctc aggattgata gtagaagaaa 180

aatcatcagc taccatgcac ggcagttctt catcaaacaa aaatgaatta ccagatatct 240

ttggcagccc ccctgattct ttcatccaag gtagtgttac tgaccaagga actgtcaatg 300

atttgatgtc tgggttgaac cttaatggaa caggtcaggc tcagcctcca gttaaagcag 360

aacccaatag caccttcagt ggatcacagt tctttgatac aaacaatgac atcggccatg 420

t 421

<210> 41278
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A8

<400> 41278

ggcagcagta cagacggcaa taccccgagg aggtcctcgg caaggccgac gcgaggggta 60

agggtgatta tcatattgat tatgtgcctg ctccaagaat taccgaggcc gacaaaacaa 120

atgaccagaa gtctttacaa cgagctcttg ataataaact ttatctcctg ctgtatggca 180

atgcttatgg ggctcctgat ggaaagcctg tatggcattt tccggaaaaa gtatacgaaa 240

atgaagaaac tatgcgactg tgtgcagaag ctgcattaaa atctgttctt gggggacttg 300

accatacata ctttgttggc aatgctccaa tggctcatat ggcagttgaa caaacagatt 360

caagtgtttc atcattcaag cgtttctttt tcaagtcaca agtggttggc acaacgaaat 420

accatgttgg aaaatgcaag gac 443

<210> 41279
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B1

<400> 41279

cccaaagata gcatagcagc agcactcaca atagcaaaaa ccaccatccg tcgtcgccaa 60

ccgtagcaag aacatcacca ccggccagca ataatggcgc agagcatgag gattgtggcg 120

ctggccctgg tggccctgct ggtggtggcg gcggcggcgc ccgtggccac cgcgtacggc 180

tgctacgacg actgctacga gcgctgcgcc aacggcaaga aagaccccgc ctgcaccaag 240

atgtgcaacc aggcgtgcgg ctccacggat cagggcgccg gtgccgccgg cgccgcgccg 300

gcttgatcgc ccagcgcatt catcgcttca gctcgatata atcgctgctc cgtcagcaac 360

ccacatatga ttcgatcaat tttccttctc taatttctcg accccgtcga attttttttc 420

ctttctattc ttttactata ctactactat ctgttt 456

<210> 41280
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B10

<400> 41280

aataaccctg cgtgcccttc gttctcgttt cgatcccaac aaccctccct ttgtctccgg 60

cagaccacat taagtcgcgg gggacatgaa caacgtcgcc tgcgctgtac ttgccgccgt 120

cgtctcctcc accgtagtcc ttgtcgccga ggcccccgct ccctctctca ctaacgcctc 180

ctttgctgct ttccctgccg tcatcacccc tcttagcgcc tccttgcttt acttctttgc 240

ctactacctt tagtaaactt taagtaggat cgaagggaga cgcttcttgc tttccatacc 300

tt 302

<210> 41281
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B11

<400> 41281

cgcaagcact actcggtcga tgttgttgtt gcgtggtaca ctgtaaactt agtagtagtc 60

tgtgtcgaca acaagctggg gaaatgccgg atcggacgag tggactacat ttgcttccat 120

taagctccaa agaaaaagag ggcaggcaga aggaggagaa agacagttaa ctgaaggacg 180

agttccacaa gttactgaat gggaaccatg cggatcctac tgatcggcga cagcgggcac 240

agatgaacgg gaggcacgac gaagacatca atcacgcgct ctccgaggcc actgccaacg 300

gcacgtaagg gcccgtcggc atctgctttt caccgggggc tttg 344

<210> 41282
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B12

<400> 41282

cccacgcgtc cgaccagggg ttcagttcgc tctcctttgg cccagtgcct acttattcgc 60

tacactagcc aggtgattag agagtctggt gtgaaccaag gtggagatcg tcctttcttt 120

gatttccttg agtcctgtct ccggaacaaa gctgaaatgg tcatacttga ggctgcaaga 180

gcaattactg aactgaatgg tgtcacaagc cgagagctta cacctgcaat tactgtgctg 240

cagttgtttt taagttcatc caaacctgtt ctcagatttg ctgctgttcg cacgcttaac 300

aaggttgcat caactcatcc tttggctgtc acaaattgta acatagacat ggagagctta 360

atctctgatc agaacaggag cattgcaacc cttgcgatta caacactgtt gaagacaggc 420

aacgaatcaa gtgttgatcg tttaatgaaa caga 454

<210> 41283
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B3

<400> 41283

atcaccaagc actacgcgga agaaggcgtg tggaagaact gggtgtggca cacggaggac 60

gacctgttca tgaacggcgc catcttgaat ccgtccggcg gcgcccccaa gcaggtcgac 120

accaacgagt gggtaaagcc caagccagga acctacgtta caaggctcac ccgcttctcc 180

ggcacactgt cctgctgcac gggcaagccg tgctgaaggc cggtgggcat caggctgttt 240

cttctagctc atggcctggc catgccaggt cgcgctggct gcgtttcatt tcatggaaga 300

aagcaaggat ggatcacagg ttgtcgttct gctaattaat ctacatacgt ttgccttcaa 360

gtactgtgtt gtggcattgt tacacatcac agtacagttt gggcaaattt ttttttcaca 420

g 421

<210> 41284
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-025-Q1-K1-B4

<400> 41284

cacacggaac cagaaagcaa acgcaaacaa gaagcaaacc agcaatggcc cgcgcctgcg 60

tcttcctcgt cgtgctcctc ctagccgccg tcgccatggc gccgttcgcg ggcgcggcgc 120

gcatcgacgt cgtcgagggc aggtccatgg cgtccgcgga cgcaccggag gccgtcgncg 180

acgctcccgc tcctgctcct ggccccgact cctcctcgac cccgtcgccg gcacccttca 240

gcagcagctc tttcgactag ccgcccggca gagatatcta cggcgtccga tcagtctttg 300

gcgccaccta taacctatcg gatcctgcaa agctatatat gattctatgg tataatgtgt 360

ggttgcggca aacgcgcgga aataatgtgc ttgcgtgatt ggttttctct ctcttttttt 420

<210> 41285
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B5

<400> 41285

cagacacgtg agcatacgcg ggggcagccg tggcgagagc agtcttgcga atacacccaa 60

gaacggagaa gatgtactcg aacgccagga tgcttggacc actatagaca ggagcgacta 120

agaggttcat ctgacagaca tggagaggaa gaaggacctt tgtgtcctgc ttggcgccga 180

cgactgggga gcgagctgtt gggactgggc tgctaacggg cgccctctga agggcgcgaa 240

ggctcggaca gcggagaggt tggacataat tcaaggggcg cctcttgctg gcgtctgaat 300

gacgcctgtg tgctacaaag cctgcttcga tgcatatagc ttgagtgtaa gacgacatga 360

gcggtagaaa cgttaggatg caaccagtgt gagtgatac 399

<210> 41286
<211> 128
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B6

<400> 41286

gaaccgatcc ccgctatttt actcccgttc gtttcattgt tccgttgctt tggatctgag 60

tctcgagatc ctcccctgtc ctgctgctcg aggagccgcc aaggatacca aaataccatg 120

atgcaggt 128

<210> 41287
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B7

<400> 41287

gccgaaccct cctccgttcg ccgaggcgga gcacgccctt ccaggccagc ttccaccgga 60

ggaggagcta agtcgcctgg aaggcttccc agctagtagc gtgtgccgta ccccgtcgct 120

caaccgggat ggcgtcgagt ggggatccgc ccggatctgc tgatgagaag aaaactccaa 180

tatccgaagg gtcttccgac gaacgtcaag ggcttcctcc agcaggcttt tcaaatcctt 240

ttgattttgg ttctatgcaa gtttgctcaa tgatccatct attaaaggag atggcagatc 300

aaatt 305

<210> 41288
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-025-Q1-K1-B8

<400> 41288

tgctggtctt gcaaatatgc gtgccaggaa ctatggcatc caagaggttg acaagctgaa 60

ggcaaaaatt attgcaggaa ggagcatccc agctattgca acttcaactg ccatggcgac 120

aggactagtg tgccttgagc tttacaaagt tctggccaga gggcacccaa tcgaagacta 180

ccgcaataca tttgctaacc tggccctacc gatgctcacc acatctgaac ctcttccccc 240

cactgtgatc aagcatggag atatgacgtg gaccgtatgg gatcggtggt ctatcgaggg 300

agacatcaca gttgcagagc tcctgaagtg gttaagcgac aagggcctga gtgcgtacag 360

tgtctnctgc ggcacat 377

<210> 41289
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B9

<400> 41289

atcaccacca aactcaacaa cagccagctc gcgaaaataa tgaagagccg cagcatggca 60

tgatcggccg cgctcttggt gctagccctc gcgctagtgg cggccaccgc cccacaggta 120

gcggaggcaa agaagaagag agcggcggag agcggcgagg cggcggaggc gaagaagatc 180

caggacgact tctgctcgac gctgtgcgag ggcaagaagg ggacggacct ggtcgtgtgc 240

aaggagtcct gcgcgctctc ccagcagtcc aacctggtgc tgtacggcag gatccagtgc 300

aagggcaagt gcaccgagca taaaggcatc acggggccgg ccatgaaggt ctgccaagaa 360

gagtgcgaca ag 372

<210> 41290
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C1

<400> 41290

cttctcctcc ccctcttacc aagtcctctt cgggttaggg ttacttaggg ttttgtggag 60

gggcgagtgg cggcggctga tgtggagtgc cgttgcttcg tcggcgggct tgcctgggcc 120

accagcaacg agtcgctgga gaatgccttc gccttctacg gcgagatcct cgactccaag 180

gtcatcaccg accgggagac ggggaggttt cgcggcttca gcttcgttac cttctccttc 240

gagaacttca tgctcgacgc tatcgagaac attaacggca aggagctt 288

<210> 41291
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-D11

<400> 41291

tccacacaga aaaccctatc cgccgtcacc gaatcggcct cccatgtaag caggatcgtg 60

cagcccgccg cctccatgaa gcgcaatccc ctcgtcacga gctcccgccg gaagtgccgc 120

aaggcgcact ttacagtccc gttctccgtg cgccgcgttc tcatgtccgc ggagctgtcg 180

accgagcgta cacacaagta caacgtgcgc ttcatcctga t 221

<210> 41292
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-D9

<400> 41292

cagtcattgt cgctacaaat atgttggaaa gcatgattga ccattctact cccacgaggg 60

cagaagtttc tgacatagct attgcagttc gggaaggagc tgatgccatc atgttatctg 120

gcgaaactgc tcataggaaa gtatccacta aaggcagtca aggtgatgca cactgtggca 180

ctcataacag aatacagcct ttataaccca actacttcta ctagtctcga tgcatctgca 240

cagggtctac aaaatgaggt cttctacgca tgccagctaa gtaaaatgtt ctgatctcat 300

gcaacgatga ttgacaacat ccttcgcaca ccaatcattg tctttacaca gacaggctcc 360

atggctgt 368

<210> 41293
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-E10

<400> 41293

agaattacgc ctccttatat tttactgaga tctccgagct actgaggaga ttaccaaggg 60

ttatattgtt gatgcttaaa acaaatgact gtttacgtgc agtcagtcat gccctggttg 120

ggggcagttc cttggagtcg tttatgatta ttggacgggt atcttctgaa gctgtgctgg 180

atgctaaaag gatgaacagg aggtcctttc tcgatggatt gaagatatgg ctggaggaag 240

ccctgctgga agctcgattc tttactttga agctgatgct atgtgttatg caacttagga 300

agttgttgcc tggctaaaag cagttaggcg tatcatcagc ctttttgacc ggtagaactg 360

ctgagttgac atctagttcc atatattttc ttgagggcga aacttgacat tttgcttaga 420

agatt 425

<210> 41294
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-E11

<400> 41294

caaaggttgg gatgacatct gctgctgaaa gtatcaccgt gagcctccga cggtctcgcc 60

agatgatggt tcaggaagtg gaaaggagtg caagtacctt ggcaacattt gatgaatcaa 120

caagtgttct ccggaaggct gaaggtgaat atcaaggaca ccgctctttg ctaatgcgta 180

cccgtggttt gctctccacg atgcaacagc aagatgttct tgataggtag gtactctcac 240

tcctttatac agttcaaaac tgggatcact gaaaataagt gtataatctg ttcttatagc 300

ttgcactatt tgttttacag tctaaatatt taaacttaat gaaatatctt tatatagtgt 360

gtacacctaa cagctcttca catttcaatg agcatctaca aattgaactt taaccattgt 420

tcctttcg 428

<210> 41295
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-024-Q1-K1-E12

<400> 41295

cggacatcga cgaaagctat agccagctag taacaagagc aaaaacacca tcatctcatg 60

cgcccgtctc aacgccaccc gcaatggccc agagcacgag gatggtggcg ctggccctgg 120

tggtcctcct ggtggcggcg acggcgtcgg tgcccacggc caccgcgtac ggctgctacg 180

acgactgcta cgagcggtgc gccaacggca agaaggacga ccccgcctgc accaagatgt 240

gcaaccaggc gtgcggcagc accgacaagg gcgccgccgc cggcgcgccg gcttgatcga 300

cccgggcttc atcggcgcgc gggctcagct cgatatcagc atcatataca atcgctgctc 360

cgtcgctcac gtcagcccat gcatgatctc tcgacccggc ccattgaatc ttctncttct 420

actatagtat atctttg 437

<210> 41296
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-E9

<400> 41296

ctgacgcgtg ggcggacgcg tgggcttgta ttgacacacg tgaacactac tatcgcctgg 60

cctggcgata acactattgg cgtgggcccc cttcttctcc cactcggagg cggacggtcg 120

cgcggaaaac aaaacgcacc tcaaccaccg aacatttaaa gcaactacaa cgacagacgg 180

gtaaccgaca gactcacgtg gtaccgacag gctaactgac accacgctcc tgacaacgtg 240

cgggtacacg ggctaaataa cgaaaaac 268

<210> 41297
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-F10

<400> 41297

gttcagtgtc ggagaatcca ccaaggacga tggccatcgc ttgacgatgg aatgctccac 60

tcccgtctcc tccagtagcc cttccactcg caagaagcgc ggggcgttca gcctcttcag 120

ggcgatgttc ctgtccttcg gccggagcga cgacagcatg aagaagacag acgacgacac 180

cacgagcccc aagaagagag ccatcgcggc tgctgatgac gattgcaagc ctgccggtga 240

cgagtcaacg tcgtggaagc gcctcgtgga cggtatgcgc ccgctccgcc tccgcgggca 300

gctggagtac tacccgtcgt caccgtcgtc accgtcgttg ggccacgccg atgtgtacca 360

tgacgtgatc ctcccgccgt cgtcgcaggc acggttcggc ttcgagatca aggaagtggg 420

catgacca 428

<210> 41298
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-F12

<400> 41298

ccgttaacca aaaatagatg ccgcattatt tttttcttgc tccaaccgat ccctcgtcgg 60

tctcccaaaa acttcgggtg cccgcatcga gctgctcccc tccctcatat tttggtgtga 120

gtaatctttc cccaatccga gctcccgttc gttctcccgc gttttttttgg taccgcacgt 180

cgcttttgtg gatgttgcgc gaagcgacgg tggtgagaaa gccatacact acgttcgagg 240

atgaggcgct gggagattca acccgcagaa tcagtcgctc caaatgttca gcgcgtatca 300

tgacggaacc gccatacctt gcgagaagtt gtctccatcg gtgacaggct c 351

<210> 41299
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-G12

<400> 41299

gtgatattcc tgaaaagcaa aaggaaaaga aaaggcagga gaataacgaa gcaagagctg 60

ccgcggctcc attttaactg gtcggcgcct ccgccgctgc cgtcttcccc ctctcccctc 120

cgtaccactc gtcttcgtct agcctcccgc ccgcagccac catggcaccc ggcctctaca 180

ccgacatcgg caagaaaacc agagatttgc tgtacatgga ctacaacacg caccagaagt 240

tctccctcac cacctgctcg ccccatggca tcgcaatcac agctgcagga acaaggaaaa 300

atgagtccac cttttgcgat cttcacactc aaatttaaga acaataaatt gacggtcgat 360

gtcaaagcga actcagaatc acatcttgtg acaacaatca ctgttgttga 410

<210> 41300
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-G9

<400> 41300

aaggaaataa gcaagtctct ccagcaaatg ggatatgatg tgatgccttc agatgacgct 60

ggtcgatttg tgtgcaacta tgtctattac cactcgctta agtttgcaga gaagcatggc 120

atcacgtctc tcttcgttca tttccccctc ttcctggcaa ttgatgagga agttcagatg 180

caatttgttg cctcccttct tgaagtcctc gcttccttga acttctagta gtaacctgat 240

ggtagatcta tctctttcag cggtgtattg ttcccaattt atttggaagg gtccccaatt 300

tacatgtgga gtgaataaga atgaggaatc attcatggag ttatgtgtgc ttcaaaatgt 360

gtaaaaaaat agctcttctc aaagaacatg tccaggcagt ccatatgtac aaata 415

<210> 41301
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-H10

<400> 41301

aagagaacga ggggcagggc agccagcgcc gctagctgaa gcaaggcagg gcaagagaat 60

ccgtacgtcg aggtgcaggt cgtaggtagg atggacgcgg accagcaggg cgtggttgcg 120

gcggcggtga agccggcgct ggccaagggg acgccgtcgg cgtcgttccg gctccgcaac 180

gggagcctga acgcggtgcg cctccgccgc gtgttcgacc tgttcgaccg caacggggac 240

ggcgagatca ccgtggacga gctggcgcat gcgctggatg cgctgggcct ggacgccgac 300

cgcgccgggc tgtccgccac cgtcggcgcc tacgtgcccg acggcgccgt gggccttcgc 360

ttcgaggact tcgacaagct ccaccgcgcg ctcggtgacg ccttcttcgg cgcac 415

<210> 41302
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-H11

<400> 41302

tgaggccgta tacggaggag gaggaggcct ttacgacggc cgactgcggt tcggcgtcgg 60

tgcattcctc gaggagggag acgaggcctt cgaccttgga cttgacgtac tccgccgggt 120

tcttcatggc ataccgcacg tctgtctgcg ccgcgaggtg gatcacgtgg gtgaagggca 180

cgacgtctaa tagcttggcc agtaagcggc cgtccttgat gtctccctcc acgacgaaac 240

tcatcgtggc tggccatcaa cgcgcgctgc gccttttga gcgatgggtc gtagtaggag 300

ttgaagctgt cgatgcctac cacacccttg ccgcgtttgc tgagcgccag cgagcaatgc 360

tctcccact 369

<210> 41303
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A10

<400> 41303

ggacaagtga caaatgaatc tgtttgaggc ttgcttgaat ccagattcat tggatggaca 60

agtgacaaat gacctgaaga aagctggcag ccttagattt tacaaaccaa aattcaaata 120

tatttttgt gatatggatg gtacgctgct caacagtaaa agtcaagttt cagcaaggaa 180

tgcagaagct ctaagggaag ctaggtcaag aggagtaaac atagttattg ccactggaaa 240

ggcacgtcct gctgtaatcg acgctcttag tatggtggac ttatctggaa ggactggtat 300

tgtttcagaa tcatcacctg gtgtattcct tcaggggctt gtggtttatg gtttggaagg 360

gagacggatt tataaaagaa atttggacca agaagtatgt agagaggcac tctcatattc 420

tatagagaac aagataccat tagtagcat 449

<210> 41304
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A11

<400> 41304

cacgacaaga tggcgtgcac agacaatgcg atgagagcct tgttcctcct ggtcctcttg 60

tgcatcgtgc atggtgagaa ggaagagtca aagggcatcg atgcgaaagc gtccgggcct 120

ggtgggtcct tcgacatcac caagttgggc gcctccggca atggcaagac agacagcacg 180

aaggctgtgc aggaggcatg ggcattggcg tgcggcggca cttggaagca gacaattctc 240

atacccaagg gcgactttct tgtcggacaa ctcaacttta caagcccttg caagggcgac 300

gtgaccatcc aggtggatgg caatcttgtg gcgaccacgg acctaagcca gtacaaggaa 360

catggtaatt ggatcgagat tctacgcgtg gataacctgg tca 403

<210> 41305
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-D10

<400> 41305

cccacgcgtc cgcccacgcg tccgacctta ccaactgcaa gctgcgctgc actctggatg 60

ggcacggtgg ctatgttaac gccgtctctg tgagccccga cgggtcgctg tgcgcctccg 120

gcgggaagga cggtgttact ctgctgtggg atttggctga ggggaagagg ctgtactcgc 180

tggacgcggg ctccatcatc cactctctct gcttctcacc caaccgctac tggctctgcg 240

ctgcgacgca tgactctgtc aagatctggg acctcgagtc gaagcacgtt gtgcaggacc 300

tcaagcccga catccaggtc tccaagaacc agatcctgta ctgtacaagc ttgagctgga 360

gtgcggacgg aagcaccctc tacactggct acaccgatgg gtctatcagg ggttggaaga 420

tc 422

<210> 41306
<211> 322

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-G5

<400> 41306

tagaatgaac tgaaaacatc ctatcgatct actttagcta tacctctgcg atccattggg 60

gagcgcaacg aatgttacat gggcgaccgg gcagagatgt cgcgacaggc ttacgattgc 120

tatcacctgt tttgcaagat ctatatgcca ccacctctcg gcatcatgca tattcgttca 180

cgacagctac ggctgttcgc atatctcggc gttacactag ttgaagacca tggacatggt 240

caacatcaca aatgtcttag acgagccata gcacctaacg ccgactggtc tgttaatcgg 300

acctactaag tacatggtga ta 322

<210> 41307
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-G7

<400> 41307

tgacagaata taacatcctg atgaagttat ttgcatatgc catcgacttg agatcaggat 60

gtagcacaac tgagaaagta acttcctcag gatgtttcaa tgacagaata taacaacatt 120

gcttaacaat ttttatcata tgagtctgat gtttgtcagc ttccaattca catttcttgc 180

taggcttaag tatatgcttc cttgtacaac aaatcatatg atgcaaggga ttcaactgtc 240

gatttacttg gatcgtacat tcaattt 267

<210> 41308
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-H10

<400> 41308

gttggaaagc atgattgacc atcctactcc cactagggca gaagtttctg acatagctat 60

tgcagttcgg gaaggtgctg atgccatcat gttatctggc gaaactgctc atggaaagta 120

tccactaaag gcagtcaagg tgatgcacac tgtggcactc agaacagaat ccagccttta 180

taacccaact acttctccta gtcttgttgc atctgcacag ggtctacaga atgaggactt 240

ctccgcaagc cagctaagta aaatgttcgg atctcattgc aacgttgatg gcc 293

<210> 41309
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-H12

<400> 41309

ccagacaaca gctactagat gaaaacagtt tcctcgttat aactcctgtc ctatcgtact 60

gtggacggga gaaatctggc ccttataagt cttgcagctt gttgcccgtt tggcaatgtt 120

gcatttgcgg acaggcgtta tgttttcaat gcatgtacat taaattcaat atggtctggt 180

cacaactttt c 191

<210> 41310
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-H3

<400> 41310

cggacgcgtg gggaagcgcg aacgcgtgca tgcgcagacg ttgaggtcga gggacacggt 60

atctctgagc ttcatcagag agcgacccgt caccgtcacg cttggccgca agccgagaag 120

agtgccgggc cgggagaccg gacgataatt gatccgtagc agattcgcta atggcggaga 180

cggcggacat ggagcggatc ttcaagcggt tcgacaccaa cggcgacggt aagatctcgc 240

tgtcggagct gacggaggcg ctacggacgc tggggtccac ctctgccgac gaggtgcagc 300

gcatgatggc cgagatcgac accgacggcg acggcttgat cgacttcaac gagttca 357

<210> 41311
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-H9

<400> 41311

gagaaacctc cttggcgtat gcatgggctg actgtgtggg ttggcggtcg cgggactggc 60

tggtggcgag tgaattgatt ccgatgtcag gacctcgcca tagatccgcc gtgcgtcgtg 120

ggcagccgcg attttcgcct caaatgctgt gaggtgtcgt gtcacctgag gatcatcctg 180

gtacctggaa tctcaagtcc caggagatga acaggtggtt catgtggagc cacacatcgt 240

ggagttcgac ttgatctagg tg 262

<210> 41312
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-A10

<400> 41312

cggacgcgtg gggcatagtt cataccagct gtagcgctac tgcagatttg ccttcatatg 60

ctattagttc gtaagacgaa tgctatattc atttcccaca actcttcaaa aagaatctag 120

atatttttt gtcatgtacg tgcagactgg aatacaattt tgtatagtcg ttcatgaacc 180

ggtgaaaaat atatttttta atacatttgg ctaataaaga attattcata ttagtttctt 240

tttattttct ataaaacaaa cataatagat attt 274

<210> 41313
<211> 306
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-024-Q1-K1-A9

<400> 41313

cccacgcgtc cgcccacgcg tccgcccact cttccggaat catcaattac caattcattt 60

gctcggaatt gttcaattaa tgtatgtttc taatttacct taaagttgat tttctttcat 120

tctttgcata tatatgttgt cagatatttg ctccacactt atattattct gatatctagt 180

tactagtagc tatgcaactc aattttcaat cacatgatta tgtatagttg tcttcttgtg 240

ttttagcacc tttgataact gaagcacact tgaaatttga ttcctttnta taaaaataaa 300

ataaaa 306

<210> 41314
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-B10

<400> 41314

tccacgcgtc cgcccactcg tccgtccact cgtccggaat catcaattac caattgatgt 60

gctcggaatt gttcaattga tgtatgtttc taatttacct taaagttgat tttctttcat 120

tctttgcata tatatgttgt cagatatttg ctccacactt atattattct gatatctagt 180

tactagtagc tatgcaactc acttctcaat cacatgatta tgtatagctg tcttctcgtg 240

tattagcacc tttgataact gaagcacact cgaaatttgt attcccac 288

<210> 41315
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-B11

<400> 41315

tccacgcgtt cgcccacgcg tacgccctct cgttcggaat catcaattac caatcgattg 60

gctcgcaatt gttcaatgga tgcctgttcc tcatttacct taaagccgat tttctttcat 120

tctttgcata tctacgttga cagatctttc ctgcccactt atattatcct cacatccttt 180

tactagtagc tatgcagctc acttctccat cacatgcgtg tgtatacatg tactctcgcg 240

ctctagcgcc cttgataact aaagca 266

<210> 41316
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-B9

<400> 41316

cccactcgtc cgcccactcg tccgcccact cgttcggaat catcaattac caattcattt 60

gctcggaatt gttcaattaa tgtatgtttc taatttacct taaagttgat tttctttcat 120

tctttgcata tatatgttgt cagatatttg ctccacactt atattattct gatatctagt 180

tactagtagc tatgcaactc aattttcaat cacatgatta tgtatacttg tcttctcgcg 240

ctttagcacc tttgataact gaagcacact tgaaatttga ttcc 284

<210> 41317
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-C10

<400> 41317

accggaagca tcagccatgt cgaactcggc gtcgggaatg gccgtctgtg atgaatgcgg 60

gctcaagttc caggagctca aggcgaatag gagcttccgc ttcatcgtgt tcaagatcaa 120

cgagaacgtg cagcaggtgg tggtggacag gctaggggag ccaggcgaga gctacgacgc 180

cttcacggcc tgctttcccg ccaacgagtg ccgttacgcc gtgttcgatt ttgacttcgt 240

cactgacgag aactgccaga agagcaagat cttctttatc tcttgggccc cggatacatc 300

gagggtgaga agcaagatgc tgtacgcgag ctccaatgac cggttcaaga gggagctgga 360

tggcattcat gtggagctac aagcaaccga cccgagcgaa a 401

<210> 41318
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-G3

<400> 41318

cggatggaag ggtctgaagc tgttcctgga ctactccggc accaccgggc gcaggaaagc 60

ggtggccacc ccacgtggcg ccatggcggt gggcatgtcc agccgggacg cgtgggcggc 120

ggcgtacagc ggggtcgccg ccggggctgc cctcgtcact ggcatcggcg tcatggcgta 180

cctgcgaaga tctgcctagc tagtgtggtg gcgcggcggc gcggcgcgca tattcgccaa 240

tgcaagagca aggggttcct gtcctgcctt cgaatcacca cagaggtgct agtatgtgtg 300

gattacgtac ccaaccggtg tatgtgtgta ttctcttcta cacgaacatg taccatggca 360

caaagtttcc att 373

<210> 41319
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-C11

<400> 41319

cggacgcgtg ggcgcgcgct gacggcgagc acggcgccga tccccggcgc gacggtggag 60

aacaacaagt tctgcctgtg cgtccacttc cgctgcgtcc aggaggagaa atggcgcgct 120

ctggaggagc aggtccggtc ggtgctcaag gagtacccgg acctccgcct caccaagggc 180

aggaaggtcc tcgagatccg gccgtccatc aagtgggaca agggcaacgc cctgcagttc 240

ttgctcgagt ctctcggttt tgctggcagt aacagtgtct tcccgatata tatcggagac 300

gatagcaccg acgaggacgc gttcaaggtc ctgcgcaact tggggcaagg gatcgggatc 360

ctggtgagca agattccgaa ggagacccgc gcatcctact ccttgcgtga accttc 416

<210> 41320
<211> 81
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-C12

<400> 41320

attagaagta tttctaataa tatttaggat ctgtcatcaa taaaatgtat gcaacaatac 60

gactattgta ttattttgtc t 81

<210> 41321
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E4

<400> 41321

atatgttcga gagcactgca tcctttggtt ccaacggcat tgttgatttt gggtggggcc 60

gatcgatcca ctcttgcttg aggcttgtgc agttgaacac acgtcgactc aagctgcatg 120

ctagcgcaca ccgtctccgt ttagacgaga cccgtccatg gggttcgcat ccttcagcta 180

tgcgcgccgc gaca 194

<210> 41322
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-023-Q1-K1-E7

<400> 41322

gctccagctc caaaggcgct cgtcttcctc tgccacggct actccgtgga gtgcagcgtg 60

acgatgcgcg gcaccggcga gcgcctggcg cgtgccggct acgccgtcta cggcctggac 120

tacgagggcc acggccgctc cgacgggctg cagggctacg tgccggattt cgacgcgctg 180

gtgctggact gcgacgagta cttcacctcg gtggtggcgg cggcggcgca gtcgcagtcc 240

aaggacgccc accaacttcc ccggttcctg ctcggngagt ccatgggcgg cgccgtggct 300

ctcctcctcc accgtcggcg ccccgagtac tggagcggcg ccgtgctggt ggcgcccatg 360

tgcaagatcg gcgacgaca 379

<210> 41323
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E8

<400> 41323

tccacgcgtt cgggcctcgc cattatccag cttcgagagc actggatcct ttggttccaa 60

ctgcattgtg gatttttggt gccgttgatc gagccacgcg tgcttgaggc ttgagcagtt 120

gaacacgctg ggactcatgc tgcaggctag cgcacacccg cgccgtctcg acgtgacccg 180

gcgatggggt gcgcaacctt caccgatgcg cgccgcgaca tggtgcggac c 231

<210> 41324
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E9

<400> 41324

cggggcgtct gtcatcatgg gcgtttctcc gggacccctg tccgtgctgt agcagctgtg 60

catcaccaag ttctcctact ggctcacccc attcacggac cacaagacca gcccggtgat 120

gttcggcgcc atggccgacc tgggcaagta caaaaccacg gtgaaggtgc agactatccc 180

gctgctgaag aacccggtgg aggacatcta ctactacgtg cccatggtgg gtatctccat 240

cgggagcaag cggctcgacg tgcctgaggc catcctcgcg ccgaggcccg acagcacctg 300

cggcacggag cttgactctg cgaccacact ggcataacct gtggagccgg ctttcaagga 360

gctga 365

<210> 41325
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-F11

<400> 41325

cgaaacaagc gcacaagaaa aaatacctcg ccgccaacaa tggcctccat gtcctccatc 60

ctgctcgcaa cggcgatgct ggctgcgctg tttgcggttg gtttgtgcac caccccgctc 120

accttccagg ttggcaaggg atccaagcct ggccacctga tcctcacccc caatgttgca 180

accatatccg atgtggaaat caaagagcac ggtggcgatg acttctcctt tacgctcaag 240

gagggaccga ccggcacctg gacgctcgac accaaggcct cgctcaagta ccccctttgc 300

atccgctttg ctgtcaagtc tggtggctac cgcatcgtcg acgacgt 347

<210> 41326
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-F3

<400> 41326

agcagttcta atctcacagc atgctaaaca tcacggagca agcctcactg atcgtgcttc 60

tcgacatggt ggccctgctg tacgacgatc tgctgacgca acccctgcat aaggataggg 120

aaggcagcga acacgatgac accgtctacc catacatcgc ctgcatctgc tctataaccc 180

cgttccagga ggtgtacacg ttcaccgcca tgcgggacac gtgcaattac gctatcatcg 240

acaacctggc acgtctgaac aatcacttgg acacgttcag catacgcacc gctcaggcgc 300

gcatgcacgt cgcgaggccg atcactacca tcccgacg 338

<210> 41327
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-F4

<400> 41327

tgggtaacaa gtatcagagc aagcttctcg aggtgattga tgctagtgag ttgccagaaa 60

tttttggtgg aacctgccga tgtgaaggtg gttgcatgaa ggctgacaaa ggcccttgga 120

aggaccccga aatcatgaag atggttcaaa gtggtgatgg gaggtgtgga tcactcggta 180

cggcctcttt cgaggctccg gagaaaatga tttgtgaaga cgacacgtat cctaagaaac 240

aagctttgtt tgatggggaa acacaattag ctggagacga gcattctcag tcacagaaaa 300

tttcccgtgg ccggattgaa cattctcacg tgtcacctct tcacgaggaa cttattccca 360

cttcaattca tacccttga tc 382

<210> 41328
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-F5

<400> 41328

cagtcgtctc cgtctgagag tgagactgag accgacagta gcagcggaga atcttcgtcg 60

tgtcgtcgtc ggaggaggag gaggccggcg agaaggagaa ggagaaggag caggagatgg 120

agaaggcggt cgcggcggag aaggctgccc agcaggagct gctcaagtac gccaaggaga 180

agggcatcgt gtcaccgacc aacggcacgg ggtggtacaa gggcatcgcc cgggagttcg 240

tggacgccca caacgagctc cgcgcgcgct acggcgtgcc tgccatgaag tgggacagga 300

agctggcgcg gcatgcgcgg cgctggtcca accgcatgcg caaggactgc gagctcgtcc 360

acagcggcca caagtacggc gagagcctgt tcaggagcca cgacgactgg a 411

<210> 41329
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-G1

<400> 41329

ttccagaact ggctttgcca tctcttctaa agccacatca gcaggaccac tggtttcttc 60

gaattgcaag agggttgttg tgagggcaat gtcgcagaga ggtgcccaag gacttcccat 120

tgatctcaca ggtaaaagag catttatagc tggagttgct gatgataatg gttatggttg 180

ggcaattgct aaggctcttg ctgctgctgg tgctgagatt cttgttggta catgggtgcc 240

tgcgttgaac atatttgaga caagcttgag acgtggaaag tttgatgaat cacggaagct 300

acctgatgga tctcttatgg agattgctaa agtatatcca ctggacgcag tttatgacac 360

ccc 363

<210> 41330
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E3

<400> 41330

gttcagcttg atccaggacg aagggaacgg tgagccgcca tggtgaagga cagcgcgtac 60

tacgacgtgc tggagatcag cactgacgcc tccatggccg acatcaagaa ggcctattac 120

ctcaaggcca agctggtgca cccggacaag aatccgggca accctgatgc tgcgcgcaag 180

tttcaggaac taggcgaagc ctatcaggtc ctaagtgatc cagtgaaaaa ggagtcatac 240

gataagtatg gaaaggaagg actttcacac gactatcttg aagattatgt tggccaactt 300

gcgctagcat ctgttgcctc tgtagagatt gaggaagaat caaacacacc tg 352

<210> 41331
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-G2

<400> 41331

cggactcgtg ggcaagatgg gaaactgcga atctattcca tcagtggcga tacactcaca 60

gaagaagctc tgcttgagaa gcaccggggt gctatcactt ccatacatta ttcgccagat 120

gtttctatgt ttgcttctgc tgataccaac agggaagctg ttgtgtggga tcgagcaagt 180

agagaggtca agctgaagaa catgttgtac cacacagcca ggataaactc cctggcttgg 240

tcacctgaca gtcgattggt tgccactggc tcactggaca cctgggcaat tgtctacgag 300

atagacatgc cgggtt 316

<210> 41332
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C9

<400> 41332

gcctgctgca aatcagagca tgggtgcttg cgcgcgtacc attcaatgac actcgatcac 60

acatattgtg aacggagtac gtggccacta catggtatgc agctccagaa tcatgtgtct 120

ccttttttttc aaagtacact acatccattg atattatgag caggaggggc atatctgctg 180

aattagctac agtgaagcca ctctttccag ggaagaatgt tagtgcatca ggtggatctt 240

atgactgatc tactagctac accttcagca tagtctatcc gcatgataag gcatgagaat 300

gctcgacgat gcatgaac 318

<210> 41333
<211> 468
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-023-Q1-K1-D1

<400> 41333

caggacaagg agggcatccc tcctgaccag cagcggctta tcttcgccgg caagcagctt 60

gaggacggac gcacacttgc tgactacaac atccagaagg agtcaaccct ccacttggtg 120

ctgcgcctta tgggaggcat gcagatcttt gtcaagacct tgactggcaa gacaatcacc 180

cttgaggtgg agtcctcaga caccattgac aatgtcaagg caaagatcca ggacaaggag 240

ggcatcccac ctgaccagca acgtctcatc tttgccggca agcagttgga ggatgggagg 300

acccttgctg actacaacat ccagaaggag agcaccctnc acttggtgct gcgtcttatg 360

ggtggaatgc acatctttgt gaaaaccctt actggcaaga ccatcactnc tgaggtggag 420

tcttcagata ccatngacaa tgtcaaggcc aagatccatg acaaggag 468

<210> 41334
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D11

<400> 41334

caaagatgtc gtggcaggcg tacgtggacg agcacctgat gtgcgagatc gagggccacc 60

acctcgcggc ggcggccatc gtcggccacg acggtgccgc ctgggcgcag agcacggcgt 120

tccccgagtt caagaccgag gacatggcca acatcatgaa ggacttcgac gagccagggc 180

acctcgcgcc gacaggcctg ttcctcggac ctaccaagta catggtcatc caaggcgagc 240

ctggtgccgt catccgtggc aagaagggat caggaggcat caccgtgaag aagacagggc 300

aggcactcgt cgttggcatc tacgacgagc cgatgacgcc tgggcagggc aacatggtgg 360

tggaaaggct gggcgactac ctgcttgaac agggcatgta actactacgt accagctgga 420

atgcatgtcg acg 433

<210> 41335
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D12

<400> 41335

cgtcgagcgc cttgcctcgg cacccacttc gtcctcctac tcctcggcgc cgctcgtcgg 60

tggtgcgtcg ggggaccccg cggttgctga ggaggtgcgg cgagaggtgg cgcacatcca 120

ggggctgtgc gcgcagatgg accgactctg 150

<210> 41336
<211> 205
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D2

<400> 41336

gcaccatgca atgctctagc gacctgaatt gaatgctatc ggataagcgc atgtacgttt 60

gtgcgtaagg gtataacagc ataggtaatg taacgagtgt gtgcacatgt aacatgatga 120

ccgagaagag aaacatgcaa atggagaagg aattggttct gcctttctaa caaaaatata 180

atataaaaag gaagaacaaa taaaa 205

<210> 41337
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D3

<400> 41337

gaacttttac gctaggtcaa tctataagag cgttgtgaat ctacatggat cagccaaaaa 60

tttaccagct tcatgtacct caaagccaaa gcaatcacct gagctgtgta tgttcccaca 120

gtatgttgtc ccgacaatgc gcacaccatt gttcatactt aatgcagcct acgattcgtg 180

gcaggtcaag aacgtcctat cacctagtcc agc 213

<210> 41338
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D7

<400> 41338

tcgaccggcc tcagtgggcg gtaacatccg agatgaacac accagcaaga cgctcaagct 60

ctaatatttc catataacgc gactttcaaa ttcttgccat gcatcagcct tcatcttctc 120

tctctaaagc accctcttaa gcttctcagt ggatactgca cccaatgatg gctaccttgt 180

gccctatgaa gaatggtata cttctaactg aagtatgaga taagattatc ctcctctcca 240

cttataaaag ctactcatac atgaatgact acaatgtgcc aaattctaaa acattactcg 300

actttg 306

<210> 41339
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D9

<400> 41339

gtccaacatg gtgacggcgc aagggcggac agaccccaac atgcccacag gcatcgtgct 60

ccagggctgc cgcatcgtgc cggagcaggc gctcttcccc gaccgcctcc agatcgccac 120

ctacctcggc cggccgtgga aggagtacgc gaggacggtg gtgatggaga gcaccatcgg 180

cgacctcatc aggccggaag ggtgggcgga gtggatgggc gacctcggcc tcaagacgct 240

ctactacgcc gagtacgcca acaccggccc gggcgccggc accagcaaga gggtcaactg 300

gccaggctac cacgtcatcg gacaggccga cgccacgcca ttcaccggcg gcgccttcat 360

cgacggcgcg tcatggctgc agagcaccgg cacgcccaac gtcatgggat tcaccaaagg 420

gtaatgatcg 430

<210> 41340
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E1

<400> 41340

gaaacagctc atctcatgag ggatatgtat tacaaaagga acccaccagc aagaggttca 60

agctctaata tttcagtaaa aagggacttt gagatgcttg ccatggatga gcatgcatct 120

gctttctcta gaggacctgc tgaagctttt cagtggattg ggcacccaat gagggctacc 180

ttgtgccgta tgaagagtgg tttaatttta actggagttg gagataagat tctccgcctt 240

tggtctgctg aaagctgcaa attcatgaat gagtacaatg tgccaaattc taaaacatta 300

gtcgactttg attttgatga aaataagatt gtaggtttga ccagctccca gatttgcata 360

tggagacgca gtgaaccaag aggcatattt caatctggtg gagcctcatt caatcattgg 420

ttatgcatga gctttgctga tccggag 447

<210> 41341

<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E11

<400> 41341

cgcgtgacag catgtgggag caaagttggg aaaatggata tcgtcggtgg tccggaggtt 60

ggtcctctaa gatgttggcc aggtggtttg tgtctatcta gatccatagg ggatcttgat 120

gttggtgaat gcatcattgc tgttcctcat gttaagcaag tgaagctttc taatgctgga 180

ggcagaatta tcattgcaag cgatggtgtg tgggatgatt tgacttgtga aatggctctt 240

gattgttctc gtgggttctc atcagatgta gctgccaatc gaattgttaa tgaagcaacc 300

cggcctcgtg gaatcaggga tgatactact tgcatcgtaa ttgacattct accaccataa 360

aatatagtcc cgagtcctcg taagagaccc cgcaggatta cattcaataa tgggtttcgc 420

ataagacatc tagacgtc 438

<210> 41342
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C8

<400> 41342

cctgaacttg tagggaggtg ttcaattgtt cgtgagcttc atgtctatgg aactgcagtc 60

cctgtgcatg gccgtgatgt agacaagcta cagcaccagg ggtatggaac tctgttaatg 120

gaagaagcag aaaggattgc tcaaaaggag caccgttcaa agaaattggc tgtcatttcg 180

ggggttggta ctcgccacta ctaccgcaaa ttgggttatg agctagaagg accttatatg 240

gtcaaatgtt tggcataata ccgtttcatt tttttcgtgc tcatgtagaa cagactagtg 300

tttataatgt aacttgtgta gttttttcaa aaaaaaaaat aaatatttgg tataccttc 360

tttttaatat tgagtcgtcc 380

<210> 41343
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E2

<400> 41343

acaaggctaa cctgcatcgc cgtcgtgcgc gccagcgctg cccagcccgc gcagatggaa 60

cgcaggcagg aggcgaaggt tgtgaagctg cgggcggtgg aggccacgcc cgagtccttc 120

gcttcgttcg ggcaggtcat cggcgccttc cccgacggcg acgagttcgg cccccacgac 180

gcccagctcg atctcagccg cggcatccca aggttctaca tcatgcggtt gcagaaccgg 240

ccgctgaaat tctctaccat cacccaccac gccagcgtga cccagtgcct gggctccgtc 300

ggcggccagg actggtacct cggggtggcc aaaccgtcga tcgtggatgg ggcgttcgag 360

cag 363

<210> 41344
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B11

<400> 41344

caagctcaac aacagccagc tcgcgaaaat aatgaagagc cgcagcatgg catcatcggc 60

cgcgctcttg gtgctagccc tcgcgctagt ggcggccacc gccccacagg tagcggaggc 120

aaagaagaag agagcggcgg agagcggcga ggcggcggag gcgaagaaga tccaggacga 180

cttctgctcg acgctgtgcg agggcaagaa ggggacggac ctggtcgtgt gcaaagagtc 240

ctgcgctctc tcccagcagt ccaacctggt gctgtacggc aggatccagt gcaagggcaa 300

gtgcaccgag cagaagggca tcacggcgcc ggccatgaag gtctgccagg aggagtgcga 360

caaggcgtac g 371

<210> 41345
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B3

<400> 41345

tcctccacgc agcggcactg acgccgagaa ggctgacgct gctgccatcc ttccggctgt 60

tcaaaagcag gacccgggtt cttgtcaccc tgttgccgcg aaatgctgct gccatggagg 120

cacttcctat atttcttgac agaatgtctc atcctgtcga tgctgcggta ttgccagtga 180

catttgttct tgcctttgta gacgttatac cgcatgcaat ctgtaccaga tatggcctac 240

caaccagtgc taactttgta tggctcgtac gcattctcat ggtcatttgc tat 293

<210> 41346
<211> 336
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-023-Q1-K1-B4

<400> 41346

tccacgcgtc cgctcagttg aaggcatctc gcgacgttgc aaatgccatg gctgcaaaag 60

caaagttgct attgcgggag ctgaaaactg tgaaggcaga tttagctttt gcaaaggaac 120

gatgtgctca gcttgaagaa gagaataaaa tgttgcgtga gagttatgac aagggtgata 180

atccagaaga tgatgatctg atccgccttc agttggaaac actactagct gagaaagcac 240

ggcttgcgca tgagaactca gtatatgcac gagaaaacag attcctgcgg gaaatagttg 300

agtatcacca gctcactatg cangatgtca tatatg 336

<210> 41347
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B7

<400> 41347

cgacgtcgtg cagagctcca cggggatcac catctccaac tgccacttca ccaaccacat 60

cgacgtcatg ctcttcggcg ccagcgactc ctggccgcag gaccagatca tgcagatcac 120

cgtcgccttc aaccacttcg gcaggggcct ggtgcagcgg atgccaaggt gccgctgggg 180

cttcttccac gttgtcaaca acgactacac gcactggctc atgtacgcca ttggcggcgg 240

cgacgcgcca accatcatca gccagggcaa ccgctacata gcaccaccaa acatcgccgc 300

caaagtgatc accaagcact acgcggaaga aggcgtgtgg aagaactggg tgtggcacac 360

ggaggacgac ctgttcatga a 381

<210> 41348
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B9

<400> 41348

tcgagccacg cgtccgaaga cgaggtagag gaggggggcga gcgacatagg cagtggaggg 60

gcacggtgag gaagccggcg gcgcgcgcgc gcttgcgggg ccggcggcct ggcgaagggg 120

gaggtggacg agctgcgcca gctcagaggc caaggccagg agctctggga ccacaacgga 180

ggcaacggaa acccacgaca aaggcggaga tgacctgacc gcgaacatgg aacaaacaag 240

gctgattata gggagggaag gctaagatac aactcggaaa tacaggaaga acaagggaaa 300

cgaaccaatc acccccgtgg aagctgaccc ctgagagaac gaaaaccggg aaaagggacc 360

caactgaaac aaaattgaa 379

<210> 41349
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C1

<400> 41349

agacgccgtc gtcgtaagcc gtccgccttg cccctcgaag gcttggtcct ccttgtatcc 60

cgacctcgtc cgccacagac ccgtttcccc gctagagtta tcgttcctct gcagcgatgg 120

cgatcaagcg gaccaaggcg gagaagaaga tcgcgtacga caagaagctg tgcagcctgc 180

tcgatgagta caccaaggtg ctcatcgccc tcgccgacaa cgtcggctcc aagcagctcc 240

aagacattcg ccggggcctc atgggcgact cggtggtgct catgggcaag aacacgctca 300

tcaggcgctg catcaaggtc tacgccgaga agaccggcaa ccacaccttt gacccgctca 360

tggacctgct cgtcggcaac gtttgcctca ttttcaccaa gggag 405

<210> 41350
<211> 349
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-023-Q1-K1-C10

<400> 41350

cagaaactat cgccagcaaa gggagaacgc cgaggtgaga gagataatgc ggtggtggtg 60

ctcatggtcg gatgaatggg ggtgtcgagc tatgcgcggt tgacgtcctc atcggagcaa 120

acccccttcac cgttggttgc cttgtaccgt ggcctgggaa gtcggtgact gctcatcatg 180

gtaggaggcc ccgaccgacc gtgcaaccgt gtgccgacgc tgtggctgtg cgccaatgaa 240

atcacgtgag gtcgtgagtc atctgaggat catcctggta actgaatctc aagtcccagt 300

caagacaagg tccgangatg aggcgcatga angatgctgt gatgtgttc 349

<210> 41351
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C11

<400> 41351

gtacgtagga gtttcaacag gaaactgggg ttgtggtgct tttggtggaa accctgaaat 60

caagagcatg attcagtgga ttgctacatc acaggctctt cgccctttg ttaattacta 120

cacttttgag aacgtgtctc tgcaaagatt agaggaggtg atccagtgga tacgacttca 180

tggctggacg gtcggcgagt tgtggcatat gctcatggag tactcatctc agaggctggg 240

aggagaaacg cacaagggtt ttttggcctg gttgcttccc agcgacaggc ccaagaatca 300

agtgcattac atgtccgaat agcaataaac ccggcttttg tgaggagtgt gtgcatgaac 360

gaagttattg ctgacaaaaa aaaatgaaat aaagataaaa gcgtatgtat cagttgccac 420

gc 422

<210> 41352
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C12

<400> 41352

atagactctc aacgagccag atgacgactc gacaaggtgg atctatcggg gcactacaac 60

gccgagacgg cggaggactc tgtgatgcca gtacctaaat ctgttgtgac aaaaggaggt 120

gttcaccaga gcaaggctgt tccgtcagca tcgattcatc atcacccact acaaggaggc 180

ataagatgga ctctgagtct tcaaacttgg taccccaata tggggatttc ccatgtcgaa 240

cctcaattca acaaaatgca caaccaccaa at 272

<210> 41353
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C3

<400> 41353

cggacgcgtg ggcgctcggc gtcgggggag aagagaagcg cgcgcgatgg caccgggaag 60

atctcttcgc cctgcgggga cggcggcggt tctgtgggcg tcgtcgctgc tgctgctggc 120

gacgttgtgc gcgcgcgcag gtggcgcgta cgcggggccg gggtgccgga agcacgtggc 180

gagggtcacg gagtacggcg cggtcgggga cgggaggacg ctcaacacgg cggcgttcgc 240

cagggctgtg gcggacctgg cgcggcgcgc gcccgacggc ggcgctgcgc tggtggtgcc 300

gccggggaag tggctcacgg ggcccttcaa cctcaccagc tgcttcacgc tctacctcga 360

cgagggcgcc gagatcctcg cgttccatga catgaagcat tggcccctca tagcttccct 420

g 421

<210> 41354
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C5

<400> 41354

gtcagaaaat agtggcatcg agttgtttca ctgcacgagc acatcctccg gcgaccaccg 60

gcctccctct acgtcctcta gcgaccgacc aacgcgccga gcgaagatgt cgtggcagac 120

gtacgtggac gagcacctga tgtgcgagat cgagggccac cacctcacgt cggctgccat 180

cgtcggccac gacggctcca cctgggctca gagcaccgcg ttccccgagt tcaagcccga 240

ggagatggct gccatcatga aggatttcga cgagccggtg cacctcgccc cgaccggcct 300

gatcctggga ggcaccaagt acatggtcat gcaaggcgaa cctggagctg tcatccgtgg 360

caagaatgga tccgggggca tcactgtgac gaaaacaggg gcagcactca tcattggcat 420

cttcgacgag ccca 434

<210> 41355
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C7

<400> 41355

cgaccgtcgc tgccgcccta cttgccggtt gctcggttct tcttcggccc gttagccgtc 60

gacgagcacc accagggcaa ccagatactt cagtggcttc gcaaggatgt cctggtgcac 120

tattgagtct gatcctggtg tgttcactga gctgattcag caaatgcaag tgaaaggtgt 180

acaggtggaa gagctttact ctctcgatgt gggctctctt agtcaactgc ggccagtata 240

tgggctaatt tttctcttca agtggatacc cggggagaag gatgaacggc ctgttgtcag 300

agatcctaac ccaaaccttt tctttgcgca ccaagtcatc actaatgcat gtgctactca 360

agctattctc tcagttctca tgaatcggcc tgaaattgac attggcccag aattatctca 420

attgaaggaa ttcacaggaa gctttacacc tgat 454

<210> 41356
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B10

<400> 41356

ggacttcgga aagtcgactg tctccaaggc tgatctctcc aagatggtga agtcgggtta 60

ttttagtgag aatgagaaga agctacttcg cttcgggggg gaagaaacta ccccgaagcc 120

aggaaaggat gaaatagtca ttttcaagag cttcctaaaa gctgggttga gatttccctt 180

aaataggata atctctgatg tgctgcaaag atttggcatc tattttcacc aactgactcc 240

caacgcgatt gtcaagctca gcgtctatat ctgggctctt c 281

<210> 41357
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H3

<400> 41357

gcgtaccaag tgcacaaatg gctggcagag cacatccatc gaatgatacg gtcacacctt 60

cccatgtgcc actgattgtt ccatctgcta ctccaacaca tcaaatgtct catcctttag 120

ggggttcatc tgctccacca cttcctctcc atgacacaaa tccgcatgcc agtcagtctg 180

caaatcttct aacaccagct ttctttgcac caccaccacc ctcttcaaca tctgtgacac 240

cacctgcttc atccatgatg cctacagcac cacctcttca tccgacttca acagctgctc 300

aacatccttc atatggcact cccttac 327

<210> 41358
<211> 325
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-022-Q1-K1-H4

<400> 41358

gaggagagtg agatcaagtg ggcatcacgt tgggacacct acctgttgat gactgatgat 60

cagattcatt ggttttctat tgtgaactct ctcatgatcg tgctttntct atctggcatg 120

gttgccatga taatgcttcg cacttttac agagccattt ttggatccat tcagctggaa 180

cctcaggagg aaccgcagga ggaaacaggc tggaagcttg ttcatgggga cgtattccgt 240

cctccaaccc actctgactt gctctgtgtt tgtgttggca ctggcgtcca attctttggc 300

atgctcctag ttacaatgat cttcg 325

<210> 41359
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H5

<400> 41359

cgaataacac agttgagcgc gacgatggga tccctcgcta ataacatcat ggtcgtgggt 60

gtcgtccttg cagcgctcgt cgccggcggg tcatgcgggc ccccgaaggt gccgcccggt 120

cccaacatca ccaccaacta caacggcaag tggctcaccg ccagggccac ctggtacggt 180

cagcccaacg gtgccggcgc tcctgacaac ggcggtgcgt gcggcatcaa gaacgtgaac 240

ctgccaccct acagcggcat gacggcgtgt 270

<210> 41360
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H6

<400> 41360

gcaagttgtc tttgaccaag gctaagcgat accttgagga tgttattgct cacaagcagg 60

caattccctt ccggagatac tgtgggggtg ttggtcgcac cgcgcaagct aagtcgcgcc 120

actccaatgg gcagggccgc tggcccgtta aatcagccag gttcatcctg gatttgctga 180

aaaatgctga gagtaacgct tatgtgaaag gcttggatgt ggaccaactt tattgtttaa 240

aacatccagt taaatcaagc ccaaaaccag aggcgccgaa cttacgcggt tacagggcgc 300

atcaatccct acatgtccta accttgccac attgagctga tcttgtcaga gaaggaagag 360

cctgtgaaga aagaggctga caacattgtc gcagcaagga agcaatgaag tatatcagca 420

tgctgat 427

<210> 41361
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H7

<400> 41361

atgtggtcgt cgatgcgggc acaggttgcg atggttgtgg cgttggtgtt cttggtgagc 60

ggggcatgtt gcggtcctcc caaagtcccc ccaggcaaga acatcacggc cacctatggc 120

aaggactggc tggacgctaa agcgacatgg tatggcaagc cgacaggtgc cggtcccgac 180

gataacagta gcggctgctg gtacaaggac gtgaacaagc ccccccttcaa tagcatgggc 240

gcatgctgca acatccacat cttcaacgat ggtctgggtt gtgggtcctg cttcgagatc 300

<210> 41362
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H8

<400> 41362

gcaaaagggt ggatcacttc agtttctcat cgcttgctct gtttttcctg gcactctcat 60

gcttcatcgc cattggtgtt aatctgagcc aattcatttg tattgggcgc ttctctgctg 120

tatccttcca agtcctaggc cacatgaaga ccgtacttgt tctgtccctt gggttcctat 180

tctttgccaa ggaggccctg aatctccagg tagtccttga gatggttctg gccgttcttg 240

gaatgatatg gtacgggaac gcatctgcca aaccaggcg 279

<210> 41363
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A1

<400> 41363

caagcccacg tactccacgt tcctgaagct cctgcaggac accaaggtcg cgggcgaggc 60

gaatcagctc cggtcggcga cgctactggt cgtccccgac aaacttgcca agcctctggc 120

gtcgctgccc gccgataagg tgcggccggc ggtggagaac cacgtccttc tcagttactt 180

cgaccccatc aagctggacg agatgaagac acgcaccgtc atccttccca cgctgctctc 240

cgtcaccgac aagaaactcg gcgtcctcaa ctacaccagg gccgacgacg ggcagatgta 300

cttcggcgct cccggcgccc cctgcgtggc caagctcgtg aaggtcgtcg cagcgcggcc 360

gtactctgtg tccatcatgg agatcagcga gcccattttg ccggcgcgtt gccctccccg 420

<210> 41364
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A10

<400> 41364

ggccagcagc gccagaacaa agcttcggcg gggaaaaagg taaagaaggg cggcggcagc 60

ggcgggagat ggccggcggt caagcccaag aaggatctcc agatcaatcg cctcatgggc 120

acccacctcc tctccattcc agacttcttt acttctgcgg aggcgaaggc tttcattgat 180

atcgcttagt cgatgggctt tacgcaccat ggcagtttgg ggccacttaa cggggaggct 240

tacatagaca acgatcggat atttgtgacg gatccattgc t 281

<210> 41365
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A12

<400> 41365

atcacgacaa gatggcgtgc acagacaatg cgatgagagc cttgttcctc ctggtcctct 60

tctgcatcgt gcatggtgag aaggaagagt caaagggcat cgatgcgaaa gcgtccgggc 120

ctggtgggtc cttcgacatc accaagttgg gcgcctccgg caatggcaag acagacagca 180

cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg cactgggaag cagacaatcc 240

tcatacccaa gggcgacttc cttgtcggac aactcaactt cacaggccct tgcaagggcg 300

acgtgaccat ccaggtggat ggcaatctgc tggcgaccac ggacctaagc cagtacaagg 360

aacatggtaa ttggatcgag attctacgcg tggataacct ggtcatcacc ggcaaggg 418

<210> 41366
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A3

<400> 41366

gatctggaaa ggttgagctt cagtatttgc atgattatgc tggagttaat gcaagcgtta 60

ggctgacagc caatcctgta gccgacctct ctgctgcctt tggcactaag gctctcgcag 120

ttggtgcaga aatctcattt gattctgcca ctgggaactt caccaaatac aatgctggat 180

tgatgttcac tcatgaagac cttatcgcat cccttaatat gaacaacaag ggagacaacc 240

ttactggagc ttactaccac aaggtgagcg aattgacaaa cacagctgtt ggggcagagc 300

ttacccacag tttctcgacc aatgaaaaca ccctcacctt tggcgggcag cacactctgg 360

acccactaac cgtcttgaag gcacgcatca acaactcgtg caaagccagc gccctgatcc 420

agcatgag 428

<210> 41367
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-023-Q1-K1-A4

<400> 41367

aatacacaag gcgcctttga tagcacttgg tttccctgtt gggattttta gcttgtctta 60

atatccaact tacaccacca tctgatatct gatcctgaca acaggctagg aggcttaact 120

gacggtttcg accttgggat gaacatgctg ttgggaggag acaaggaaga tgatggcggt 180

tcaagcaagt cgcatggcaa gagcggaaac cgaaagaagc acctgaagaa caacaagaag 240

aggaagaggc attagccctg gactcacact cctgtatcac ttcaacatac ttgagtgtgt 300

gacatgtcag ttattttaca gatatgttag ttntaccata gtattgttcg atgtgatcct 360

agcatgcccg tgaatgc 377

<210> 41368
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A7

<400> 41368

tcgcgactgc gtatatgata atgcatattc agtcgcgtag ctccttccat gccccctgag 60

ctgactgcgc gactacctcg gagagcaagg cctgtgaatg gattcattta acctcgctcg 120

cttgtccatg gttcgcagca acgataccaa cacccgcatt atttaattgg tagcctcctc 180

tagctacgca cgcattttta gtctcctaca cgcccttgga ttgtgcgtgg ctctgttaat 240

catctctcat ccttcgtctg ccatttctcc cctgagattt ttgttccttg ttggtaccat 300

gcattttggc aaataatttt gtgattccac tccccaaatt aaagtttggc tgtcgtatgg 360

gttgtaaacc cagatcaata tatatatgtg cgtgattgaa ctgctccaaa aaaaaaaatt 420

taa 423

<210> 41369
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A8

<400> 41369

gacgaagtga gagctgaagc catgagagat cttttgaagt gcattgttga ccacagaaat 60

gctgccaagt cattatccac acctgaaaga gatgctgttg acaatgagtg caataaagct 120

gagcagtggc taagggaggg gtcccaactt caagaatcct tgcccaagaa tgtggaccca 180

gtactttggt cctgtgaaat caagagaaag gaagaagagc tggatacgtt ctgtcgaaac 240

ataacaaggc acaagggctc tccagcaagg acagatggca gcaggggttc agattacatg 300

cctacacctg atagagatta aatattttca cgatcacgag gtttctttac tgtacggtca 360

cacatgt 367

<210> 41370
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-022-Q1-K1-H2

<400> 41370

cagttagctc acctcccccg ccagttcccg tgagctcagc acccccattt gcaaaatccc 60

gaccggcaca gttcaaatca cctgcaccac caacttcgag aagatctcca cctccactgg 120

tgaagccccc gtcaccaccg tcacttgtaa gctctccacc actgccacca atgaccttcc 180

caccttcacc agccgtccca tcaccacctn cacctgcacc atcatcacct ncaccgtcgg 240

cacctgagga gttcatcttg ccaccaatca tggcgcagca gtatgcg 287

<210> 41371
<211> 342

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A9

<400> 41371

gtcctcgacc atccctgcaa attaccgcga tggctcccaa gatcctagtc atccttgtgt 60

tcctcgccgt ggcctcaccg gctgctctgg ccgccttcga tgtgatagag atgctggccg 120

acaagcccac gtactccacg ttcctgaagc tcctgcagga caccaaggtc gcgggcgagg 180

cgaatcagct ccggtcggcg acgctactgg tcgtccccga caaacttgcc aagcctctgg 240

cgtcgctgcc cgccgataag gtgcggccgg cggtggagaa ccacgtcctt ctcagttact 300

tcgaccccat caagctggac gagatgaaga cacgcaccgt ca 342

<210> 41372
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B1

<400> 41372

agcgatggtg gtcggcatct acgacgagcc catgaccccc ggccagtgca acatggtggt 60

cgagaggctc ggcgactacc tcgtagagca aggcctgtga atggattcat ttaacctggc 120

tcgcttgtcc atggttcgca tctacgattc caacacccgc attatttaat tggtagcctc 180

ctctagctac tcacgcattt ttagtctcct acacgccctt tgattgtgcg tggctctgct 240

aatcatctct catccttcgt ctgccatttc tcccctgaga ttctcgttcc taggtggtac 300

catgcattct ggcaaataat cttgtgattc cactcccaca ttaacagttt ggcgtcgtat 360

ggtttgtaaa cccagaacaa tatatatatg aggtgtgatt gaactgct 408

<210> 41373
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F11

<400> 41373

tgtgacatca gcaagctgaa catggccgac tccatggcca gggccaaggt cctagacttt 60

cacctcctat caccgaattc tgttttatgg caagctccat cagcccaggc acgaaggtgt 120

tctgagggct ttcattgacg aacgggacac cctcgtggac acaggctatc gcatacaagg 180

tggatggcca gatctctgct tcgttcttgt ccaacgaagc caggagctcg tccatggtgt 240

ccttaagccc tgcaaccacg ttgctgtacc tttcggagtt cgtcgtacac atgacgacta 300

ccttgttcac cttgtttttt tccttgaact ccttgatgtc cttctttgac tggtt 355

<210> 41374
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F12

<400> 41374

cctgtaacca gatctgaacc cgcggcgaca gaaacaaacg ctcgctcgct cgttcgttgt 60

ccgttcattg tcttcgcc 78

<210> 41375
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F3

<400> 41375

gcaagccctc gcctgtcctc actcctaacc ctcgcccgac tcagatctat ctgccccgcg 60

ccgacggcgc catgccgatc actccgggtc cctactctgg cgtcagcacc ctcgcccttg 120

tagcgagggc atcggtcttc ggcttcggtg tcgtctacgg gagcatcaag ctctcaatcc 180

tcaaggcaac atagcctaga aaggcagaag cgcatgctca tcactaagga cgacagggct 240

gctacatgtc aatttctatg gaaggatg 268

<210> 41376
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F4

<400> 41376

gattgatccc aagctaattg gtcgcttgga ggtgggaagt gaaacagtta tagacaaaag 60

caaatccatc aaaacttggc tgatgcagat ttttgaggaa agtgataata ctgacattga 120

aggtgttgac tccagcaatg catgttatgg tgggacagca gccctactga attgtgtgaa 180

ttgggtcgaa agtaactcct gggatggccg ttatggtctt gtcgtttgca cggacagcgc 240

ggtttatgcg gaaagaccag ctcgttcaac aggaggtgct gctgctatag caatgctcat 300

tggtcctaat gctccgattt ccttcgagag caaatataga gcttctcata tggctcatgt 360

ttatgatttc tacaaacctg atctt 385

<210> 41377
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F5

<400> 41377

cccacgcgtc cggctccatg aggacgagtg tgtaggcggc ctcgaggtcc tggacccggg 60

caccggcgag ttcgtgcccg tggaccccgt cgcgggctcc ttcctcgtaa acatcggcga 120

cgtcggcacg gcgtggagca acgggaggct gcacaacgtg aagcaccggg tgcggtgcgt 180

cgcacccgtg ccgcgcatct ccatcgccat gttcctgctc gcacccaagg acgacagcgt 240

gagcgcaccg gcggcgttcg tggacgcgga ccacccgcgc aggtacaagg tgttcaacta 300

caacgactat cggaggctca gact 324

<210> 41378
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F6

<400> 41378

gtcttcttca tgcccgactt agcgcacgct aagttcggcg cggccaccgc caccgccgct 60

ggcgctgctg ggagcaacag cgcccaggcc aaggggggccg tcaccaccac cgatgttgca 120

cagaagattg ttaagcaggt tgagtatcag ttcagtgaca tcaacctggt ggcaaacgag 180

ttcttgctca agattatgaa caaggacaca gaaggctatg ttccgttgtc agtcattgca 240

tcctggaaga agatcaagtc t 261

<210> 41379
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-022-Q1-K1-F8

<400> 41379

cacatcctct cttttctacc aatactgctc tagccgtcgc aaaacctcct gacttccccc 60

agatccagat cgtttcccca gatccagatc gcaggcgtga agggcaactg ttaccagatt 120

atgatccgtt ttcgagcttc gaggaatcga cgatcaagct tcggtgacca agtgacctgg 180

ttcttcgagt tctgcaaggt tgaagaccct gagcatctat ttggtgaaga aattgctgtt 240

ttcacgtggg aacatggttg gtaaagatca tcctgtgcct acaatttcca aatcagagtt 300

cactggtatt tgtgacttcc catcagagat aacattgata gcanatgaaa atgaaaaccg 360

acttgatata ttggaagct 379

<210> 41380
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F9

<400> 41380

attcttcttg cttcacgccc agtctggttt catctacacc gtcaaggaca cggaggccta 60

gagctgaacc cctgaagaaa ccatcacttc cacagctcgt tgttgagcct acggaagcaa 120

ggtcaaattc gtttgttggg acccatgaat atcttgcccc agagatcatt cgaggagatg 180

gccatggcag ctcggttgat tggtggactc ttggaatctt cctttacgaa ttactctatg 240

gcaagacacc attcagggga ccggataatg acgaaacact ctcaaatgtg atctcacagg 300

gcttgaagtt ccctgacagt ccagcattaa gcttccacgc tcgagatctg atcagagggc 360

tgcttgtgaa agaaccggag taccggcttg gctcgtcgag 400

<210> 41381

<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-G1

<400> 41381

tgcaagaaca tgctgatcaa ggacgtgacc gtgacggcgc ccggggacag cctcaacacg 60

gttggcatcc acatgggcga atcatccggg atcaccataa ccaacaccgg cattgccgtt 120

gccgacaact gaatctccat 140

<210> 41382
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-G11

<400> 41382

ctatcatcat cttctccgat ccatcaacaa tcgccgagag cgatcgagag ataaataaag 60

atgaagaaag tggcatcatc gggagccgtt ctcttcgtgc tagccctgac gctagtttgt 120

gccccgctga tagcagaggc aaagaagaag agagtcgccg ccgccgccgc cgaggagaag 180

aaggtgcagg acaacttctg ctcgacgctg tgcgagggca ggaaggggat ggacctggtg 240

gtgtgcaaag agtcctgcga cctctcacag cgcttcaacc tggtgctgta cggccggatc 300

cagtgcaagg gctagtgcac cgagcagaat ggcattaccg cgccgcagat gaaggtgttc 360

caagaggcgt gcgacaagga c 381

<210> 41383
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-022-Q1-K1-G12

<400> 41383

gggctcaccg gtcatcggct cgagatcgat ggattaggtg caaaagtgga tcgcgggccg 60

acgccagtac agttgtcagc tcggcccacc ttctcggccc gacgccctga ttccgctcct 120

cttgctctcg cacccttccc actgccagcg gcggctgaag gcggcgcggt atcagcttgg 180

tgatttgtga gcgatggcgc cgccggggtc gcggcggtgg gcttacgtgc gcgtgatggc 240

cggcaccatc ctcggtggcg tacttggatt ctacgtcatg caccgcatcg agacctcgta 300

caaggcgaag atggaggaga ggctgcngaa gtaccaggcg catatgctcg gcaaagccaa 360

agagtcgcag catttgcagg acg 383

<210> 41384
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-G2

<400> 41384

gtattttatg atgccccatc tgattacaac ttggtggatg gaaaagatga cttcgtatat 60

ctgaacgaca ttctgaatga gccacttgga aatgaatcgc tctttgatgg agatgatatg 120

atggcttact ttgatgccac agagaatgat ttcaagtatg acattttggg ctctggtcag 180

ggtttggatt atcacactcg cacacatgcc gtaaaacttt gcccaaaaga gtcacaggga 240

acacatgttc acattcaagg ggatc 265

<210> 41385
<211> 147
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-G6

<400> 41385

gggcatcgta aatccatagt ggtacttcac tgttttcagg tggcgccatt ccagattctt 60

tggattcatg ttcctgcagt tggccacgcc agtttttctt tttatatgtg gtggtgcttt 120

ggtggacttg gaaaagacta tttttga 147

<210> 41386
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-G8

<400> 41386

gcatcggcat catcgcccag ccaggaggca gtcagaagga tgaggacgcc gtcgcgtgct 60

ggaacaagta tggtgtgtcg ctcgtgctca ccggcgtcag gcacttcaag cattagccgt 120

catgccccat ggctggtcat cttagcttat ggagttacgg tgaaaaaaaa acaagct 177

<210> 41387
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F10

<400> 41387

gcgcaggcgg tagtggagtt ggtgcctgct gatgataata tcgccgccgc cgctgctggc 60

acggcggtgg acgatggcga gccgcctcag cagtgcgcga ccccggtgag cgtggaggag 120

gcgtgccgcg gcgcgtccga tacgcacgcc ggcgtggcct acgaccactg catggcgtcg 180

ctgggcgccg acccgcgcag catggaggcc ggctacaaga acatgcacgg gctggcggtg 240

ctggccacca tgatggccat cgaccacgcc gtcagcaccg agtccaagat cgtcgacctc 300

ctccgcgacg cgctggacaa 320

<210> 41388
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H1

<400> 41388

cgaacagtcc agaacccact gctcgaaacc gtagccactg gccagtcgat gcccatgact 60

gcggtgccca ggaccggccc cggttgcctg gggtcgccgc cggctcaggc tctgtcgagc 120

tcactagccg gggttcaagg cgccccgaag cgactgggcg catcgaagcc gtcgtggatc 180

gttcgcactg agtcaaacgt gaggagggag agagcaaaac gacctgatcc tccttgcacc 240

atctgc 246

<210> 41389
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H11

<400> 41389

gcaactgaaa acagccgagc gatctcctct ccctctccct ctccgatcca ttctccagcg 60

cgagcgaagt aaacatgtct gaccgggcaa agatgtcgtg gcaggcgtac gtggacgagc 120

acctgatgtg cgagatcgag ggccaccacc tcgcggcggc ggccatcgtc ggccacgacg 180

gtgccgcctg ggcgcagagc acggcgttcc ccgagttcaa gaccgaggac atggccaaca 240

tcatgaatga cttcgacgag ccagggcacc tcgcgccgac aggcctgttc ctcggaccta 300

ccaagtacat ggtcatccaa ggcgagcctg gtgccgtcat ccgtggcaag aagggatcag 360

gaggcatca 369

<210> 41390
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H12

<400> 41390

ccggttcggg ttcgggttcg tgaggttctc cggggttcgg tttcgtgggt gagcggatcg 60

agatggcggc gtcggatgtt gagtaccgtt ctttctccgg gggcctcgcc tgggcaagga 120

acgaccactc cctccacaac gccttcagca cctacgggga ggtcctcgag tccaaaatca 180

tcctcgatcg ggagacgcat aggtccc 207

<210> 41391
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D11

<400> 41391

ccaacatcgc cgccgagtgc ctgcggtacg gcctggacat cacccggcag cccatcccgg 60

tggtcccggc ggcgcactac atgtgcggcg gcgtccgggc agggctgcag ggggagacca 120

acgtgaaggg cctctacgtg gccggcgagg tcgcgtgcac ggggctgcac ggtgccaacc 180

ggctagcaag caactcgctg ctggaagcgc tggtgttcgc caggagggcg gtgcagccgt 240

ccatcgacct catggtggat gccgacggag atgccagacc gtcgctggcg gcgaggtggg 300

cacggccgac gctgccgcgg tcggtgctgg gcgacagcgt gctgtcggac atcgtggggc 360

ggacgaggca tgccaagatg gagctgcaat cagtgatgtg ggagtatgtc ggcatcgtgc 420

gctcgacggg gc 432

<210> 41392
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D12

<400> 41392

cactgatatc ggtgggggat ggcagcttgc ttggaaatgg tcagagaagg aaggtgagaa 60

tggtagaaag gaaggtggtg gtttcaaaag agtctacttg caccaagagg gagttcctgg 120

ctcaagaagg ggctcaattg tttcacttcc cggtggtggc gatgttcttg agggtagtga 180

gtttgtacat gctgctgctt tagtaagtca gtcagcactt ttctcaaagg gtcttgctga 240

accacgcatg tcagatgctg ccatggttca cccatctgag gtagctgcca aagggtcacg 300

ttggtaagat ttgtttgaac ctggagtgag gcgtgccctg ttagtctgtg ttggaattca 360

aatcct 366

<210> 41393
<211> 376
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-022-Q1-K1-D4

<400> 41393

gccagagcca agcagctagc tagtagcggc cggcagcatc gcgtagtaga gtgtgctcag 60

agcagcgcgc gcatgggacc cttgggcccc accgtgagct tcagtatcat ggtcatggcc 120

aggctcagcg gcgccgccca gcagcagccg gaggatgaga gggagaggaa ggagggcggg 180

agtgggtgcg gcttccggat gccgctgcac tacccgcgct acaagaaggc ggactacgag 240

gccatgcccg agtggcgcgt cgactgcctg ctccgcgagt acggcctncc cgccgacggc 300

gacctcgaca gcaagcgccg cttcggcatg ggcgcctttc tctgggccga ccagtactga 360

tctgatacaa ttcaac 376

<210> 41394
<211> 95
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D6

<400> 41394

tgccttttt ttttttttta aaaaaaaagc gagctcgcgt acttgggctt ggacgcttag 60

gactggttcg tggtgtcgtt ctagcggtcc ttttt 95

<210> 41395
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D8

<400> 41395

cggacgcgtg ggttgttgag cagatcacca tgtatatgta cctcactggg agggtggata 60

tgaggcagat tgagaagaca attcagtatc ttattggctc tggaatggat cctaggactg 120

agaataatcc ttatcttggt ttcatctaca cctccttcca agagcgggcg accttcatct 180

cacacgggaa cactgctcgt cacgccaagg actttggcga cttaaagctt gcacaaatct 240

gcggcatcat cgcctcggat gagaagcgac atgaaactgc gtacaccaag atcgtggaga 300

aagctgtttg agatcgaccc tgatggtacc gtggtcgctc tggctgacat gatgaggaag 360

gaagatctca atgcctggcc aacttgatgt tgacgggcag gacgaacagc tgttcgagca 420

ct 422

<210> 41396
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-022-Q1-K1-D9

<400> 41396

agcacaccgc cttcgccgcg gacgacgcga tcatcgccgc cgccgccgtc atcacgtcgc 60

agcccggccg gcggttcacg tcgtacccgc cggcgagggc gcgcggcggc tgcaggctgg 120

ccccggcggc ggcggcgcgc caggccacgg acgatcccgg cgccgctgtg tcctggccag 180

aactagtcgt gccgcggcac gccgacttcg acgactggat ggagaagcac ccgtcggcat 240

tggccgcgtt cgagtcggtg ctggccgccg ccaaaggcaa gaagatcgtc atgttcctcg 300

actacgacgg caccctgtcg ccgatcgtca gggaccccga cagcgccgtc atgtccgagg 360

agatgcggga cgcggtgaga ggcgtggccg agcacttncc gactgcgatc gtgagcggga 420

<210> 41397
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E1

<400> 41397

cggacgcgtg ggatcgatca cgacaagatg gcgtgcacaa acaatgcgat gagagccttg 60

tgcctcctgg tcctcttctg catcgtgcat ggtgagaagg aagagtcaaa gggcatcgat 120

gcgaaagcgt ccgggcctgg tgggtccttc gacatcacca agttgggcgc ctccggcaat 180

ggcaagacag acagcacgaa ggctgtgcag gaggcatggg catcggcgtg cggcggcact 240

gggaagcaga caatcctcat acccaagggt gacttccttg tcggacaact caacttcac 299

<210> 41398
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E10

<400> 41398

tgggcatcgg cgtgcggcgg cactgggaag cagacaatcc tcatacccaa gggtgacttc 60

cttgtcggac aactcaactt cacaggccct tgcaagggcg acgtgaccat ccaggtggat 120

ggcaatctgc tggcgaccac ggacctaagc cagtacaagg accatggtaa ttggatcgag 180

attctacgtg tggataacct ggtcatcacc ggcaagggaa accttgacgg gcatggccca 240

gccgtgtgga gcaagaactc ctgcaccaag aagtacgact gcaagatcct tcccaactcg 300

ctggtgatgg acttcgtgaa caacggggag gtgtccgggg tcacgctgtt caactccaag 360

ttctttcaca tgaacatgta ccggtgcaag gacatgctga tc 402

<210> 41399
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E11

<400> 41399

ctagatcgtt gtgggttcca gaagaaccat caaatgcgga tgacataaga ggtgcttgca 60

tcgaggagtg caccaaagaa aataaggctc ctggcgacaa gaagacatgc gaagtgttgt 120

gcaccaagct cacaaaaaag cctagcgaag aaggcaaaca tgattgatga agtagcactc 180

cgataatata taccctagtg gatgagtggt catctttgta gccatgtctg ccacacgatg 240

gccttgatta tattggctta ttgttttgtt tttggtttcc actagtatcc taattccttg 300

ttcatgtaac ctaatgtcac tcaaagcatt ttatatgctt cacttaatta ataaataca 360

aaggcaaaag catgttctgt ttt 383

<210> 41400
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E12

<400> 41400

gcgcgacccg ccgaccggct gcgccctgtt tggcatctac aacggcatgt tccgccgccg 60

ccgctccgca ttcatgacct gcctccaccg gatcaacggg gccgaggccg aggccgcggt 120

gccgccgaac cagaagcccg ccgcgcaccg cgactccttc ctcgcgcgcc gtcccagcgc 180

catgcccgtg ccggcggcgg cgcataacgg caggagcagg cc 222

<210> 41401
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E2

<400> 41401

gcgggcggcg ggcgcctacg ggctcatcag cgtccacagc cgtgacctga tcccggtccc 60

cttcgacacg ccggccgacg acttcccggt cctcgtcggc gactggtaca ccaaggacca 120

caccgtcctg gccaagaacc tggacgccgg caaggggatc gggcggcccg cggggctcgt 180

gatcaacggc aggaccgaga aggacccttc gaacccgccc atgtccaacg tgaaggccgg 240

caggacgtac ggtttcggcg tttgcaacgt ggcatcaagg cgttcttcaa cattcgcatt 300

cagaaccaca ttatgaagct tgtggagatg gaaggctttc acaccatgcg caacgactac 360

gactcgctgg accttcaca 379

<210> 41402
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E3

<400> 41402

ttaaatcttc ctcgcttgga atctaagcca acaactgcag aagtccagcc cttaaacct 59

<210> 41403
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E4

<400> 41403

cctttatatg tcatggggga cacacctgct attgaggcac tgcagaaaat gatccaaggt 60

aagtttagac accttccagt tgtagaaaat gggtaaggtt ttggcgtggt gggcctttcc 120

aaatggcctt ttggtgccat ttccagactt ggaaaggccg cagaaccaga aggtgcgctt 180

gccgcttgtt gtaaaagggg ttgaccaaca gttaggtggc aacttcttag ttccacacat 240

tctcttgaga ctattagaga 260

<210> 41404
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E5

<400> 41404

cgagagttct gactagccac atccagtcaa gcagtaaagg cgcaccatgg aggcggcggc 60

ggagaataag gaggccgagc aggaggagca gcagctaccg cacgcgcaga aggataacgc 120

gcccgtcgcc gccgaggaag acgaagcgga ttcggaggag accgagcgcc gcaaccgcga 180

cctcaagtcc ggccttcacc cgcttaggca caaactcgtg ctctggtaca ctcgccggac 240

gcctggagcg aggtcgcagt cgtacgagga catcatcgag aagatca 287

<210> 41405
<211> 328
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-022-Q1-K1-E6

<400> 41405

ataaacaagc gcacacgaac aaatacctcg ccgccaataa tggcctccag atcctccatt 60

gtgctcgcca cggcgatgct agctacacta ttcgcggttg gtttgtgcac caccccgctc 120

accttccagg tcggtaaggg atccaagcct ggccacctga tcctcacccc gaacgttgcc 180

accatatccg acgtggagat caaagagcat ggtggcgatg acttctcctt tacgctgaag 240

gagggcccga ccggcacctg gacactcgac accaaggccc cgctcaagta cccnctttgc 300

atccgctttg ctgtcaagtc tggtggct 328

<210> 41406
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D10

<400> 41406

gtcagaggaa ttcttcttaa tgctggcatc tgtcaactat gtagaggtga tcctattgcc 60

atcacaaatt cattggagcg ataccaggaa attgacccga ctttctctgg gacacgtgaa 120

tacaagcttt tagctgatct tgctgcatct atggatgaag gggatgttgc caaattcact 180

gatgcaatca aagaatttga tagcatgaca cgtctggatc cttggaaaac caccctgctg 240

ctcagggcga agaacgagct gaagaaaaag gaggacgatg aggacgacct tacataagta 300

ttgtagtaaa aagaaatggt acgatatgtt ttggtttgtg cctccattgc attggaggca 360

tcgtgttcct tacaaacgag catgatgaaa ttaatcgctg gtctggttgt acagaacgtc 420

aatttgggtt cta 433

<210> 41407
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E9

<400> 41407

gatggttggg ttgcacctaa acttgcaaag cggatggaca agtttatgct atatctgata 60

actgctggaa agaaggcatt agaaaatggt ggactcaccg aagaactaag gaatgagttg 120

gacaaaacca ggtgtggggt tcttattggt tctgcaatgg gtggcatgaa ggtttttaat 180

gatgcaattg aagcactgag ggtctcttac aagaaaatga acccattttg tgttcctttt 240

gcaactacga atatgggctc tgcgatcctt gcaatggatc tgggatggat gggaccaaac 300

tattctattt tcacagcttg tgctaccagt aacttctgta tccttaatgc agcaaaccac 360

atcagaagag gcgaagctga cgttatgctc tgcggtggtt ctgatgcacc 410

<210> 41408
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F1

<400> 41408

cggacgcgtg ggaacaccct gaatttgagg gtattacacc gtcgatcata gtactggacc 60

cgggcgccgg cgagttcatt cccgtggacc ccgtctcggg ctccttcctc gtaaacatcg 120

gcgacgtcag cacggcgttg agcaacggga ggctgcacaa cgtgaagcac cgggtgcggt 180

gcgtcgcacc cgtgccgtgc atcttcatct gcatgttcct gctcttaccc aatgactaca 240

gcgtgagcgc acc 253

<210> 41409
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B11

<400> 41409

cacaaaagca aaaagcatca tcacaataat ggccagtgcg tgagtgtgca tcatggcgcc 60

attcgcggcc ctcttcgtgg tagcccttgc tctagtggcg gccaccagcc cacaggtagc 120

ggtggcgaaa aataaaagag cggtgaacag cgtgctggac gacttggcga agaacatcca 180

ggacaacatt tgctcgacgc tgttcgaggg caataaaggg acggacctgg tcgtgtgca 239

<210> 41410
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B3

<400> 41410

gggaaacatg ttgtttttgg tagagtgatg aaaggaatgg gggtagttcg ctctattgag 60

catgtttctg tcggagaagc tgactgcccc actcttgaag ttaaaattgt tgattgtggg 120

gagcttcctg aaggtgctga tgatggagtt gtaaactttt tcaaagatgg tgatacgtac 180

ccagattggc ccaatgatct tgaagagaag cctgctgagg tttcatggtg gatggatgct 240

gtggagtctg ctaaagctta tgggaatgac aatttcaaga aacaggacta caaagcagct 300

ctcagaaagt acaggaaagc tctgcgctac ttggatcttt gctgggagaa agaagagata 360

gatgaagatt ag 372

<210> 41411
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B4

<400> 41411

atcacgacaa gatggcgtgc acaaacaatg cgatgagagc cttgttcctc ctggtcctct 60

tctgcatcgt gcatggtgag aaggaagagt caaagggcat cgatgcgaaa gcgtccgggc 120

ctggtgggtc cttcgacatc accaagttgg gcgccttcgg caatggcaag acagacagca 180

cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg cactggg 227

<210> 41412
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B5

<400> 41412

cccacgcgtc cggtgaagga ccccatcccg agggacgtgt gggagaagat ctacacctgg 60

ctcgccaagc ccggggccgg tgtcatgatc atggacccct acggcgccag gatcagctcc 120

atcccgcagg atgcgacgcc gtttccgcac cggcagggcg tgctgttcaa catccagtac 180

gtcagctact ggttcggcga gggcgacggt gctgcgccga cgcagtggag caaggacatg 240

tacgcgttca tggagcctta cgtcagcaag aaccctaggc aggcgtacgc caactacatg 300

gacctggacc ttggcgtt 318

<210> 41413
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B6

<400> 41413

ctccaaaatg ctttccaaga atttgggcag gtcaaaaacc tgcatttgaa tttggaccgt 60

cgtaccggat ttgtcaaggg gtacgctttg attgaatatg agaagtttga agaagctcag 120

gctgcaataa aagaactgga tggagctgag ctttatgaac ataaaatgag tgttgatt 178

<210> 41414
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B7

<400> 41414

tgaaacatgt cgtcttggta gagtgatgaa aggtatgggg gtagctcgct ctattgagcg 60

ggtttatgtc ggagaagctg gctgccccac tcttgaagtt aaaaatgttc attgtgggga 120

gctttctgaa ggtgctgatg atggactttg aaacttttc atagatggtg atacgtaccc 180

agattggccc aatgaacttg gagagaagcc tgctgaggat tcatggttga tggatgctga 240

agactctgct aaagcatatt ggaatga 267

<210> 41415
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B9

<400> 41415

aagacgaggt agaggagggg gcgagcgaca taggcagtgg aggggcgcgg tgaggaggcc 60

ggcggcgcgc gcgcgcttgc ggcgccggcg gcctggcgat gggggaggtg gccgcgctgc 120

gccagctcgt cggccaggtc caggagctct gggacctcta cggcgccaac ggcaaccccg 180

tccccaggtg gtatttacct gacttcgaac atggttcaat caaggatgat tattgtgggg 240

gaagctcagg atacaactcg gaattactga agatcatgga aactaaccaa tctccccctt 300

gcaagcgacc gcggagagat cgaaaccgtg aaaaggcacc ctcctcaaac aaaattgaag 360

tcatggaaca agagatatgg agagatttcc ctgaagatct tttcgaaact gtcatagca 419

<210> 41416
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C1

<400> 41416

cgtggacgtg gcccgcgtgc agtgcggccc aggccacggc atgagcgtcg gcagcttggg 60

tcgctactcc ggcgagggag acgtcacacg ggtgcacgtc cgcgacatga ccttcacggg 120

caccatgaac ggcgttcgca tcaagacatg ggagaactcc ccttccaaga agcaacgccg 180

cgcacatggt cttcgagaac atggtcatga gggacttgaa aaaccccata ataatcgatc 240

agaagtactg cccctactac aactgcgagc acaagtacgt gtccggggtg actctcaatg 300

acattcactt caagaacatc aagggcacgg cgacgacgcc ggtggcggtg ttgctccggt 360

gcggtgtgcc gtgcaagggt ctggtgctgc aagacgtgga ccctaggtgc ccgtgct 417

<210> 41417
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C10

<400> 41417

gggaaattca aatttagccc aatcagcgtg aatttcttga cagagattac aaaaattatg 60

tttaccattg taatgctatt catccaggct agacgtctaa aggtgggaga caagccactt 120

tttacagttt caatatttat gcatgctgct cgcaataatg ttcttctttc agtacctgct 180

cttctctatg ctatcaacaa ctatttgaag ttcataatgc agttatattt taatcctgct 240

agcgtgaaaa tgctgagtaa tctcaaagtt ctggtaatcg cagtgcttct taaaatgata 300

atgagga 307

<210> 41418
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C11

<400> 41418

gaaacatttc ccgacgggtg tttcccacgc cggaatggac cagccggctc cataagccca 60

agattcgttt gcattcagta atgcctttgc ctaaatcaga cctggggtca taactcttta 120

gtagagaacc aagaagatgc atgcatctag ggcaaggctt ttcaaggagt acaaggaggt 180

acagcgagag aatgtagctt acccttgttt tcaaataata tgtgatgatt ctaacatata 240

taagtggact gctcttatca aagggccttt 270

<210> 41419
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-022-Q1-K1-C12

<400> 41419

aaacatcatg gggcaagcct cacggctcgt cctcctcgcc gtcgtggcgc tgctgtccgc 60

cggcctcctc ccgcaggcgc tgggtaaggg taggggaggc aggggacacg gtggcgccgt 120

caacccgcag gtcgccggca tctgctctcg caccccgttc ccggaggtgt gcacgtccac 180

cgccgggcgg cacgcgtcca agtacccggt catcgacaac ctggccgtgc tgaacatgca 240

ggtggacgcg ttcgccaagc gcaccgcgca tgcgcgcaag cacgtcgcga ggtcggcccg 300

caccatcccg ccgcagcaga cgcaggcgct cacgttctgc gacaccatgt acatgaacac 360

gcatgacacc atcggcgcgg tgcatcgggc catcacgttc aaggacaccg gcaccgncaa 420

gatcatgct 429

<210> 41420
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C2

<400> 41420

gggcgagaga ggaggagaca tgggcagcag ctcgcaccag gtatacctca ccttcccttc 60

agagagcacc ttcatggagg aagacgtggc caattacttc ggtttgtatg gttctgtgcg 120

cgacgtgagg atcccatggc aggagaaacg gatgtttggc ttcttaagct tcaacattcc 180

gaaaacgtta acaacattct tacaatacgc attccacata ttattggcga aatcaagggt 240

cctggtgaaa cgttacatag ag 262

<210> 41421
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C6

<400> 41421

acgtgaagcg gaagagagga ggaagagaga ggaggctgaa aggaaagcta aacttgatgc 60

catcgctgaa aagcagcgat tgagagagat agagctggag gagaaggcaa aggcaacaag 120

ggagaagctc ttaaagggat ccgaggctgt gcgcgctcca gattctgcac ctgttgcaca 180

gccacctcga gagtcagcag cagcgcctgc agctgctgcg gctgctcctg ctcctgctcc 240

tagtaaatat a 251

<210> 41422
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C7

<400> 41422

cggacgcgtg ggcggacgcg tgggaaaaaa ttaaaaaaaa aaaaaagata aaaaaaaaga 60

gaaaaaaaaa aaaaaaaaaa aggagtagat aatagaattg gaaatgttgg taaaaagtaa 120

caagggacat tgatcttggt catatattag gctgtcttgg gctattg 167

<210> 41423
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C8

<400> 41423

agcaagacca cctaggaggc ctctctctcc ctctccccag ccacccccgt agcgagaggg 60

agggcggaag aggatgagcg cgtccaggtt cataaagtgc gtcacggtcg gggacggcgc 120

cgtcggcaag acctgcatgc tcatctccta cacctccaac accttcccca ccgactatgt 180

tccgacagtg tttgataact tcagtgccaa cgttgtggtt gatggtaaca ctgtcaacct 240

cggcctctgg gacactgcag gtcaagagga ttacaacaga ctgagaccac tgagctatcg 300

tggagctgat gttttc 316

<210> 41424
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C9

<400> 41424

agcttgtgta gtagactcag cacctgttgc tgcacctgat cctcaggttt gggctttggg 60

cttctcggct gccctcatga aaaaacgcag tgtcaccacg aagggactag gttcagatga 120

ttcaaggtct gatgtcctag ttgtggagtc caacaaggag ctcaagctgg gggcaacaga 180

ggcggttata ctgtcagcgt tagagagttt ctttgacgtt gttttgaact atccaaagat 240

caatatgagg ttgtgtgacg tgatggagct cttgtcctgg aagcaaccca agtgccccca 300

attgtacata tacagctccg tcgacagggt gatcccagcg aaatcagtgg aggcattcat 360

cga 363

<210> 41425
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D1

<400> 41425

gcgcgcaacc tgtctgtcac attgttcatt ctgacggcct atgtcgccgc gacggcggca 60

ccgaccgtct gtgcggtcaa atctccggcg agcacaacga ccacaaggaa acacgaagca 120

gccaaagaag agacggatgc gcctgccaag gcaccagctg ctgcagccac cgaggggcct 180

gctgcgggag cgcccatgac atggccggat ggcgggcctg agttcgtcaa gatggtcatc 240

aagaacccct 250

<210> 41426
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B10

<400> 41426

aagaagctca agccggaact ctgcgccgac gccatgggca cgctcatcta ccagtccgac 60

atgcgcgcgc aggatcccgt cggtggctgc taccgcctcg tcctcagtct ggagcgccag 120

ctcgagatcg atactgccga gctcaccgcc gtgctccacc acttggcgtt ctgccgccag 180

gctaccacga caaccaccgt gatggcaccg caacagcaag gcggtggcat ggctgacctc 240

gacgtcacgt cctccaacca gccgcttctt cccaacgagc agcaagaagt cgttgacgca 300

ctctacgtga atcacgaagc tcacaccgcc atccttcaaa ccgacgaggt cgtccaccgc 360

cacggtggag gccacagccc caccgatgat catcacggtg agcagcaaca gcagcagctc 420

ttcgactact tttatta 437

<210> 41427
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-021-Q1-K1-H5

<400> 41427

gggcttcctg ctgctggccc tcatctggcg gttcgacttc gcgcccgtca tggtgctcgg 60

catcgccgtg ctcaacgacg gcaccatcat gaccatctcc aaggaccggg tgaagccgtc 120

cccggtgccc gacgcctggc gcctccagga gatctttgcc accggcgtcg tcctcggcac 180

ctaccaagct ctcgccaccg tcctcttctt ctgggccgtc cgcgacaccg ccttcttcac 240

gaatacgttc ggggtgcacc acatcgggga cagcacggag gagctgatgg cggccgtgta 300

cctccaggtg agcatcatca gccaggcgct catcttcgtg acccgcgctc ggagctggtt 360

cttcgtggag cgccctggcc tgctgctggt ggccgtcttc ctggccgngc agctggtggc 420

gacgctgatc gccgtgtacg c 441

<210> 41428
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H9

<400> 41428

cgagaactct agatgccccg cgaccgctac tagccatcct ccgtgcgcgt ctacaccgtc 60

tgcgactagt ccaggtacct gatcgtgctc aacgtgccgt cactcggatg cggtgacgac 120

ctctccagtc tcttctggac gtacggccct gtggaggagt gcacgcccat ggattcataa 180

gactctgagc cctacactga cgtcttcttc gtcaagttct cacaggtcaa caactccagg 240

tttgcaaaga ggaagctcga cgagtctgtg tttctttgca aaccgctgca ggtgaactat 300

tcccctcaat tttataaccc 320

<210> 41429
<211> 253
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-022-Q1-K1-A1

<400> 41429

gccttgagga ggaggaagtg aggccaganc gttgaatgca catcttccat atttctacac 60

aaaaacacaa aaacacaatg cacatcaact gacagaagtg caataccctc tcatatgcag 120

agtttcggaa tactgggctg gagagatcag aggcgctgaa aaatgatctg gaatggttca 180

cgcaacaggg ccacacaatt ccaaaaccat cgggccctgg caccacatac gcttctctac 240

tggaagatct gtc 253

<210> 41430
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A10

<400> 41430

ggaagaggtt ctcttccaat ttgagaatag tggtggtgat gacagctatt tcctgaacaa 60

cgctccaatc attgctgttg atcgggctcc aaatgttatt gctatcaatg taagcccaat 120

tgaatatgga catgtgcttc tcattcctcg tgttctggac cgcctgcctc agaggattga 180

tccagagagc ttcttgcttg cactgcaaat ggcagccgag ggaggtagcc catacttcag 240

gcttggttac aatagcttgg gtgcgtttgc caccatcaat cacctccact ttcaggcgta 300

ctacttgtca gtgcctttcc ctgttgagaa ggcagctacc cacaagatcc cactctctga 360

ggacacgaag aagaatgggg tgaccgtgtc caagctgata aattatcctg tgagaggcct 420

ggtatttg 428

<210> 41431
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A11

<400> 41431

atcggctcac tactgcagta gttttaccac caggatttgt tcatgactat atctcaaact 60

gtattcgatc atgtgaagac attaaggaca agtatatgca aaatagacta gtgagactag 120

tatggggttt tctaccaaac cctattcgga acaagataat agatgtgcaa gatctcttcg 180

tggaggtgca agcattttgc atcgccttct cgcgaataag ggaggcagtg gggttgttca 240

ggctcctgaa atctctagaa tgaagagcgc tgcaccatca gttgggcgct ggattctcag 300

aacagaaatt cccaaggtgt acatccatgg ctctgccttt tgcttccaag ctgctgaccc 360

tgcataggtc tggactctgt agggcgtgga ttttgctggt atattggtta 410

<210> 41432
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A3

<400> 41432

gggagctggc accagcacca gcaccggcac cagcggctct tcccgtgccg gatcagtgca 60

acgccgggga cggcgaccgc gggaggaagg ccggcgtcgc tggtcccggc gtgtgcagcg 120

gggcgcggag acgggtggcc aagggcgccg gtggcccggc gagcaccaag ttccgcggcg 180

tgcggaggac gccgtggggc aagttcgcgg cggaga 216

<210> 41433
<211> 325
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-022-Q1-K1-A4

<400> 41433

cggacgcgtg ggaaagaccc aagggcacaa gcagaagttg cggttgtact tttcttcctc 60

cggcgtcggc tcagatctct gcgtgcgggc tagcgatggc gtcgttctcg gaggctcccc 120

cagggaaccc gaaggcgggc gagaagatct tcaagaccaa gtgcgcgcag tgccacacag 180

tcgagaaggg cgccggccac aagcaaggtc caaacttgaa tggtcttttt gggaggcagt 240

cgggtaccac cacaggctac tcctattccg cgggaaacat aaacaaggct gtgatctgng 300

aggagaacac tctgtatgac tacct 325

<210> 41434
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A5

<400> 41434

gagtagagtg ttgaaggcac atctccaata ttcctacaca aaaacacaaa aacacaatgc 60

acatcaacta acagaagtgc aataccctct catatgcaga gtttcggaat actgggctgg 120

agagatcaga ggcgctgaaa aatgatctgg aatggttcag gcaacagggc cacacaattc 180

caaaaccatc ggcccctggc accacatacg cttctctact ggaagatctg tctgaggagg 240

acccccaggc ctttatctgc catttctata acatgtactt tgctcatact gctggaggcc 300

gaatgattgg caaaaaggtt tccaagaaga ttctgaacaa caaag 345

<210> 41435
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A6

<400> 41435

ttcgttttcg tctgctccct cgtccaagta tatcaacgta gcaaggtggt ttaatcacat 60

tgatgcgctc gtgaggctga gcggaattac tgcagagggc caaggtgtga aggttgaatc 120

ctcagcagtt ccttcagccc caactccaga tgttgctgaa gcacaggccc cagctgctga 180

ggaggaggac gatgatgatg ttgacctttt tggtgaggag accgaagatg agaagaaggc 240

tgctgaagag cgtgctgcag ctgccaaggc ttctggcaag aagaaagaat ctgggaagtc 300

atcagtttta cttgatgtga agccatggga cgatgagact gacatg 346

<210> 41436
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A7

<400> 41436

tgcaattcga agtttccaag aatatggtgt agagtttaca aatggtagga ttgaatcatt 60

tgatgttgtg attcttgcca caggttataa gagtaatgtt ccttattggt tgaaggagaa 120

tgaatttttt tcacagcaaa gtggatttcc aaacaaacca aatgaatgga aaggaaagga 180

tggactctat gctgctgggt tctcaaggcg tggtctactt ggtgtgtcta tggatgccac 240

caaaattgcg gaggatattg cgcagtctta taataatata tataagctac aaagatcata 300

agaacaaatg atatttaact atttatcaat aatttagcta tcaccatttg agagttttgt 360

aaatatatgt actagtctat ttgcataaat tataagagat ggatatgcta gattacaaat 420

actaggctag cttatctatc aacgcac 447

<210> 41437
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A8

<400> 41437

atcggccccg ggagcaagat gatccgcatc catggcgtca agtgcggccc aggccacggc 60

atcagcgtcg gcagcctggg gcgctacaag gacgagaagg acgtggaaga cgtgcaggtg 120

acggggtgca cgatcgccgg caccacgaac ggcctgcgca tcaagtcgta cgaggactcc 180

aagtcgtcgc tcaaggccag caagttcctg tacgagggca tcaccatgga caatgtctcc 240

taccccatca tcatcgacca gaagtactgc cccaacaaca tctgcgtc 288

<210> 41438
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A9

<400> 41438

aggatcctga tctccgacgc aaggagcaat gggaaaaatc tcaggcaaac aagggactta 60

acttggctaa catgcttggg tttggtgatc ttggcagtcc accattatct gctgctgaag 120

aatattcact tcattcacga taccttgcta aagcgaattc tatgaatctg tcagatgttg 180

ctgaaatgaa aataatttac cgtggaggag ttgatagtga agggcgtcca gttatggtca 240

ttgttggtgc tcactttctt cttcgctgct tggatctgga acgatttgtt ctatatgtag 300

taaaggaatt tgaatctctg attcagaagc cttacacaat tgtctatttc cactctgtgg 360

catcattaca accacagcct gatttaggat tcatgaaacg gttacaacag atactaagtc 420

ggaagcataa aaaaaatctt catact 446

<210> 41439
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B1

<400> 41439

cagacctgca tgcattcgcc ggctcgccat gtaagaaaca ggggagttga aagtgcgaca 60

caccagagaa cgtgtctgtg tatactgtgt aaaggtccta aaggaaagag aagatgcaca 120

tattcaaagc ctcggagcaa aaa 143

<210> 41440
<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F9

<400> 41440

cacgactcca agttcggctc cgccgtcatc cgctactccg gctccagcgg cgccccgccg 60

gggcccaaca tgaccgatcc gccgggcggc tgggcctggt ccatcaacca ggccaggtca 120

tttcggtgga acctgacagc cagcgtcgat cgccccaacc cgcatggctg ctaccactac 180

aggcacatca acatcacccg caccatcgag gtcatggtca tccgaggaca catcg 235

<210> 41441
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-021-Q1-K1-G1

<400> 41441

cccacgcgtt cgggccctgc cttttctccc attcccctcg ccgcgtgaca cgcgctctcg 60

ccctctctcc cgagtcccga cgaccgggca acagccgccg tcgccgctca gcctccgtcg 120

ggaccttcgc cggtggcgag caccatcagg tgtacatgcg tacgcccatg cccttggctg 180

cgcccgcccc tgcaagtggt ttcctgctgg tctgtgtgga tttggctgcc ggaagattga 240

ttgatgcggc cttcaggatc actgtagcct cgctgtgaga ttccaaggct gctcangtca 300

tgttggggga ccagtgcatc atacaggcgt tagactcggt tagctcatca agctctgccc 360

ctgattcgac cctctccgga gagcttccag cangaactgt gtgattggga 410

<210> 41442
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-G10

<400> 41442

tggtcaccta cgtgacagcc atgtgggtca tgccccaccc cttgcgcatt gtgccgagcg 60

agcggctcca ggtgcgaccc gccgtgaacg ggccgctcta ctacctcacc tgcctcatga 120

acggtctggg gagcgactgt atcatcggct ggcacatgct ggcggtgctc aagatggaca 180

cccacgccat ccgcggcttc tactatgggc atgttcatcg ggggcgcact a 231

<210> 41443
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-G2

<400> 41443

tgctgttggg cctgtattag atggtgatgc agttgtcact atcaacttcc gagctgatgg 60

catggttatg cttgcgaaag cactagagta tgcagatttt gacaactttg accgtgttcg 120

tgtccccaaa atccgatatg ctgggatgct tcagtatgat ggtgagttga agcttccaag 180

ccgttacctt gtttccccac cagagataga tagaacatct ggggagtact tggtgaagaa 240

tggcatccgc acctttgctt gcagtgagac agttaaattt ggccatgtca catttttctg 300

gaacggtaac cgttcgggat actttgatgc aactaaggag gagtatgtag aagtacctag 360

tgacagtggt attacattca atgttgcacc caatatgaag gcgcttgaaa ttgctgagaa 420

agccagggat gctctcctaa gtgga 445

<210> 41444
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-021-Q1-K1-G3

<400> 41444

cagcaagaag acgacccttg gtacttggta atagatggca gcaccttcgt ccatgccggg 60

gccgccgccg ccggagccaa gcggaggcat cgtatccccc gtggcggtgg tggcctcgca 120

tttctgcgcg ccctacgtgg tgcagctggc ggtgaaggag aagaaggtga gcctccggga 180

aggcgacttc accatcaccg acaccaacgg cgccgtcgtg gtcacggtca agggtgcctt 240

gatcagcatg cacaaccgcc gccgcctact cgacgccgtc ggcaaccccc tcctctgcct 300

gcgcgagaag gtaatcagca tgcacaacac gtgggaagcg tacagagggg acagcacgag 360

atcgagcgac ctgctcttca ccgtcaagaa atcctncatc atgcagccgt tcaagaccga 420

gatgctcatc tacctg 436

<210> 41445
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-021-Q1-K1-G5

<400> 41445

gtgacaccat ccttcacata caagacaagc ctgctctgtt cagaagcgtc ttcaaatggc 60

taaagcccgg tggcaaagtc ctaatcagcg actactgtaa gaatcctgga aaaccatcag 120

aagaatttgc tgcgtacatt aagcagagag gctatgacct tcacgacgtg aaggcttatg 180

gacagatgct gaaggatgct ggttttcata atgtcatcgc ggaagatcgc actgagcagt 240

tcttgaatgt tctacagagg gagctaggtg aagttgaaaa gaacaaagac gctttcctgg 300

cagacttcac ccaggaggac tatgacgaca ttgtgaatgg ctggaacgcg aagctgaaac 360

ggagctctgc cggcgagcag aggtggnggt tgttcattgc caccaagtga tttggcctgg 420

cagcangagg gctcttcgga ataagaatgg at 452

<210> 41446
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-G6

<400> 41446

aggagatgag gtggagcgtc caggagatgc ggggcgtgca ggagacgctg cagaacaagg 60

agctggcggt gctgtccatg agcctcttct tcgcgtgcct ggcgctcttc aagctggcgt 120

gcgaccgcgt gttctgcctc ttcgccggca agggcaggga ggaacccgac gcggaggagc 180

acacaaggag cagtagggcg tggatgctcg tgctcgccag cagcagcttc accaccctca 240

tcgtcctgct ctacaactga agctttctag agtttcgctt gctagcacgg agcaacgttc 300

ttttagccat gttcttgtcc ccgcatagct cattaactcc cctctcaagt agatggggta 360

acgtatgtac tcactatttc agaataaaga tgaacacagg ttccttgttc attgtaaaac 420

aacctggaat aatcc 435

<210> 41447
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-021-Q1-K1-G7

<400> 41447

aggcatttca taattctgga attgaggtta ttttggatgt agtttacgaa ccatacaaag 60

gaagctgatg atgttaaccc gtacatgact tcctttcgtg gtattgataa caaggtctat 120

tacatgttag atctcaacaa cagtgcacag ctgctgaact tctcgggttg cgggaataca 180

ctaaactgca accatcctgt tgtcaaggag cttgtacttg acagtttaag acattgggtt 240

aaggagtatc acatagatgg atttcggttt gaccttgcga gtgttctttg tcgtggacca 300

gatggcagtc ctcttgatgc accttcactt attaaggaaa ttgccaaaga ctctgtattg 360

tctagatgta agatcattgc tgaaccttgg gactgtggtg gcctttatct agtanggagg 420

ttccctaatt gggacaggtg ggctgaat 448

<210> 41448
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-G9

<400> 41448

ccctcgtcgt cgtctcactc accccgcctt cacgcctccc tcaccaaata aggtcccggc 60

cttttccgac attcacaggg gggacaggaa atcagcggcc atggcctcga ttccggcgac 120

gaccttcgcc gtcatcttat ccgtcctctt ctgtgccgcg gctggcaccg tcgtcgacaa 180

cgacctcccc gactacgtca tccagggccg cgtctactgc gacacctgcc gcgccgggtt 240

cgtgaccaat gtcaccgagt acatcgcggg cgccaaagtg aggctggagt gcaagcac 298

<210> 41449
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H1

<400> 41449

acttctccta attccctttc tacccactct ttcgatgaaa cctatcattt tctcccaatt 60

aactcacttt cacgttcatt ctacatatct caagacactt ccaagtactc cctttactct 120

tctcagaaaa caaaacaatc attttatcta ccaacatcat ctatctctct tttaaaacat 180

atctttaatc tttattatct ttctcttcta atc 213

<210> 41450
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H10

<400> 41450

gcggcgcctc ccgatccggt ggtgggccaa tgtcgccgcg cttggcatct ttcttgcggg 60

ggccgcatct gctgacgcgg gctttctcag cccggtcctt attaataatg ctggtgcacc 120

tattctttac tgggaatcaa taactttcat cagacccact gttgctctaa tatgttttga 180

gacaatcggc ttattactaa atgattagtc acctccttct cccttcaagt catcttgcat 240

ggatgactgt agcatatctt tatggcttgc tgataatcac agcggtgttg aacataagca 300

agcccgtgcc gtattttata cgcactgcat tgcactgcac gatacat 347

<210> 41451
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H11

<400> 41451

cccacgcgtc cgcctgcagt catctcctcc atcaccacca aactcaacaa cagccagctg 60

gcgaaaataa tgaagagccg gagcatggca tcatcggccg cgctcttggt gctagccctc 120

gcgctagtgg cggccaccgc cccacaggta gcggaggcaa agaagaaaag agcggcggag 180

agcggcgaag cggcggatgc gaataagatc caggacgact tctgctcgac gctgtgcgag 240

ggcaagaagg ggacggacct ggtcgtgtgc aaggggtcct gcgcgctctt ccaacagtcc 300

aacctggtgc tgtacgggag gatccagtgc aagggcaagt gcaccgagca g 351

<210> 41452
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H12

<400> 41452

cccacgcgtg cgcctgcagt catctcctcc atcaccacca aactcaacaa cagccagctg 60

gcggaaataa tgaagagccg gggcatggca tcatcggccg cgctcttggt gctagccctc 120

gcgctagtgg cggccaccgc cccacaggta gcggaggcaa agaagaagag agcggcggag 180

agcggcgagg cggcggacgc gaagaagatc caggacgact tctgctcgac gctgtgcgag 240

ggcaagaagg ggacggacct ggtcgcgtgc aaagagtcct gcgcgctctt ccagcagtcc 300

aacctggtgc tgtacgggaa gatccagtgc 330

<210> 41453
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H2

<400> 41453

aggaaatgta tcaggggcgg tcaattgact caggttcagg tgcattgtgc atatgtcaag 60

acactcccaa tgtacaccct ttatttttct cataaaaaaa aacaatgttg ttatctacca 120

acatcagcaa gctgtgttgt aaaacatatc tttaatcgtt attatctttc tctttcgatc 180

<210> 41454
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-021-Q1-K1-H3

<400> 41454

ggaaaaggca gccttctcac cgtcggaccc ggcgatgcag cggcacgtcg cctccgggcg 60

gccgtcggtc ggggacggct gcgacttttc ttaccgcatg gtcgtcgaat cccggtacca 120

gagggtcgcc gagggcagat cccgcctcgc gcgcctcatc ctcgtgcagg cgctgcacct 180

agtggccgga ggcttgcttc tattgctgtc gttgtccaag ggggcggcgg tgaacaagtt 240

cgccgtgctg tccatggccg cgggattcct ggctatagtg gtgggggaat tagggcgaat 300

gcggaccatg gcagtgctgc ttcggcttta cacaagcttg tcatcaattg cggttgcatt 360

ctctgtgacg tgcattatcc ggtcagagtt gttcttgaag gttatgaagc anaacacaga 420

ggccatcaca agctacgaaa tgcttgatgc ggttc 455

<210> 41455
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E6

<400> 41455

gtgagtcaag ctgcagactt ctcaatcaag aagtgcatat ccattattgg tacaatggaa 60

gttacaaagg aggaaaaagc gaaagcctac aatgtcttca aggaccttga caacaggcaa 120

attttcttga gtgcatgtga tgatgatgcc gagcctacac tgatttggct gagaaacgag 180

atggcttagc tggtggagtc gtctgaattg cttgctggat agccagtatg ttatgttgtt 240

caaatgaaaa attagctctc tccctttggt ttgttcttaa tctaaatgca cacactctat 300

tgtaatgtaa taagagacaa atgagtggcc aacttctgat tttgatgctt caaatttcat 360

ccgcttcata gacctaatat gatggacact gatcttttta tatgcatgca acaaattaat 420

gtatccatgt ggtgtaacca aacaat 446

<210> 41456
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E7

<400> 41456

ctcaatcacc actcgcccat cgtgggcgcc gcccttctcc ccaatcctga tcctcgtagg 60

accgccgccg agaacgctac cgccgccaag agcagcacaa gcacccgtcg catcaccgtc 120

ttcaatgaat tcctctgtct actcgcctac cccgacttca cttgatagcc cgccagacgc 180

atctcgatgc ttctgctccc tggttcttag ggcctgtgga tgagaccgtg tccctgccgt 240

ccaaaaatca gcaggccctc atgctcatag cgttcatgga tccaggaaaa ggagacgccg 300

gtgatacttc aaccaccaga gagcgtcgga tggggaccac catcgtacgg gtccgctggg 360

accgctgcta gcctactagg gcagcaacga attgacaggt atgattgcgc atggccatca 420

ctgcgagacg taaccacatt aaaccttt 448

<210> 41457
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E8

<400> 41457

gttccccatg gtcagaagcc gagccaagaa ccacccttca aaggggtgtc ccaaagccgt 60

gaccaaacac ctcaagatga cctcttctca aagaatacaa gcatcgccaa tctcttggca 120

tccattagtg acaggaatat ctcagtatct ctcacgaagt ctattcattc caccaccaac 180

tcattttcct tgtttgcgtg ttttttactt ctcttctttt gctgaacccc ctcagtaggc 240

tctggtctct tctttggctc tttgccctga agaagatgtg caaggagggc gcatattggg 300

ggactgttgc tggcgtctac gtgggcgtgg tgtatggcgt ggagagggtc cgtgggcgca 360

gtgactggaa gaacgcgatg gtcggaggcg ccttgtccgg cgcgctggtc tccgccgcca 420

gcagcaacca cggagacaag atcgtcaagg 450

<210> 41458
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E9

<400> 41458

gcaaattacc gcgatggctc ccaagatcct agtcatcctt gtgttcctcg ccgtggcctc 60

accggctgct ctggccgcct tcgatgtgat agagatgctg gccgacaagc ccacgtactc 120

cacgttcctg aagctcctgc aggacaccaa ggtcgcgggc gaggcgaatc agctccggtc 180

ggcgacgcta ctggtcgtcc ccgacaaact tgccaagcct ctggcgtcgc tgcccgccga 240

taaggtgcgg ccggcggtgg agaaccacgt ccttctcagt tacttcgacc ccatcaagct 300

ggacgagatg aagacacgca ccgtcattct tcccacgctg ctcttcgtca ccgacaagaa 360

actc 364

<210> 41459
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F10

<400> 41459

gtcgtggccg tctcccatac cgtctccccc ttctcgcctc cggtgcccaa agccaggcca 60

acagttttga ggtggtaatg gcgggccagg ctaaccaacc cactgtcctt cataagctag 120

gtggccagtt ccacctgagc tccagcttct ctgaaggtgt acgggcccgt aacatctgcc 180

tttctttctc atcttatgaa aggagatttg ccacgaggaa ctacatgacc catagccttt 240

ggggcccttc aatgtctgtt agcggtggca ttaatgtttc agtgatgccg actccgcttt 300

ttgccaatgc tccatccgag aaaggtggca aaaacttcat gattgatttc 350

<210> 41460
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F11

<400> 41460

cacgacgcca agtccgcctc cgccgtcatc cgctacgccg gctccagcgg cgccccgccg 60

gcgcccaaca tgaccgagcc accggccggc tgggcctggt ccatcaacca ggccaggtcg 120

ttccgctgga acctgacggc cagcgccgcg cgccccaacc cgcagggctc ctaccactac 180

ggccagatca acatcacccg caccatcaag gtcatggtct cccgcggcca catcgacggc 240

aagctccgct acggcttcaa cggcatctcc cacagggaca ccgagacccc cctcaagctc 300

gccgagtact ttaacgtcac cgacggggtg ttcagctaca accagatggg cgacgtgccc 360

ccc 363

<210> 41461
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F12

<400> 41461

atgggtggat gtgacaagca aggcttccca atgaagcaag gagttttgac ttctggtcgg 60

gttcgtcttc tgctccatag gggcactccc tgcttccgtg gttatggcag gcgtaatggt 120

gagcgcagga ggaagtctgt ccgtggttgc atcgtgagcc aagacctatc tgttatcaac 180

ttggtgattg tgaagaaggg tgagaatgat ctgcctggtc tgactgacac tgagaagcca 240

aggatgaggg gtcccaagag ggcctccaag atcagaaagc tgttcaacct taacaaggat 300

gatgatgtac gcaagtacgt gaacacatac cgcatgacat tcactaccaa gaacgggaag 360

aaggtcagca aggcacctaa gatccaacgg cttgtgacac cct 403

<210> 41462
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-021-Q1-K1-F2

<400> 41462

gcgatcgtcg gagcagagag agacttcctc gcctccatcc catcccgccg ccgccgtcgc 60

tacggtcgct gataagcagc cgcatccagg gatggagatg aagaagatcg cctgcgccgt 120

cctcatcgcc gcctcggcca ccgtggcgct ggccgcggag gcgccggctc cgtctcccac 180

cagcggctcc tccgcggtcg cacccgccat cgtcggggcc gccgtggcct ccttcttcgc 240

gtactacatt cactgagccg ccggacgagg agccggagcc ggagggaaga gaccaaggtg 300

gggggagaga cttggctgcg ctgcgctgct ctgctgcttc cgcgcattcc cgatgcgtgg 360

gcgtgctctg attgggcacg gcggtggcag tggcacacct tcgtcttcct tttgtttggt 420

tnttttttcct tcctctttct acttgattnt catttaacga 460

<210> 41463
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F3

<400> 41463

cggacgcgtg ggcgcctgcg atctccgtag cctccgtcgc gtcgagcatc gatcatgtgg 60

gcctactgcg gaaagtacaa ggatgagctc atcaagaatg ctgcctacat tggcacccct 120

ggcaagggta tccttgctgc tgatgagtcc actggcacca ttggcaagcg cctttccagc 180

atcaatgtcg agaacgttga ggagaaccgc cgtgccctcc gtgagctcct attctgctgc 240

cctggtgctc tccagtacat cagcggtgtg atcctcttcg aggagaccct gtaccagaag 300

accaaggatg gcaagccttt tgttgatgtc ctcaaggagg gaggcgtcct ccctggcatc 360

aaggttgaca agggcaccat tgacgttgtt ggcactgata aggagaccac cacccaaggc 420

catgacgacc ttggcaagcg ctgcgccaag tacta 455

<210> 41464
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F4

<400> 41464

cgacgaaagc tatagccagc tagtaacaag agcaaaaaca ccatcatctc atccgcccgg 60

ctcaacgcca ccccaatggc ccagagcacg aggatggtgg cgctggccct ggtggtcctc 120

ctggtggcgg cgacggcgtc ggtgcccacg gccaccgcgt acggctgcta cgacgactgc 180

tacgagcggt gcgccaacgg caagaaggac gaccccgcct gcaccaagat gtgcaaccag 240

gcgtgcggca gcaccgacaa gggcgccgtc gtcggcgcgc cggcttgatc gacccgggct 300

tcatcggcgc gcgggctcag ctcgatatca gcatcatata caatcgctgc tccgtcgctc 360

acgtcagccc atgcatgatc tctcgacccg gcccattgaa tcttctcctt ctactatagt 420

atatctttgt tgcaggtctt cgttctcata catcgatcca ctc 463

<210> 41465
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F5

<400> 41465

tcgaccatcc ctgcaaatta ccgcgatggc tcccaagatc ctagtcagcc ttgtgttcgt 60

cgccgtggcc tcaccggctg ctctggccgc cttcgatgtg atagagatgc tggccgacaa 120

gcccacgtac tccacgttcc tgaagctcct gcaggacacc aaggtcgcgg gcgaggcgaa 180

tcagctccgg tcggcgacgc tactggtcgt ccccgacaaa cttgccaagc ctctggcgtc 240

gctgcccgcc gataaggtgc ggccggcggt ggagaaccac gtccttctca gttacttcga 300

ccccatcaag ctggacgaga tgaagacacg caccgtcatc cttcccacgc tgctctccgt 360

caccgacaag aaactcggcg tcctcaacta caccatggcc gacgacgggc agatgtactt 420

cggcgctccc ggcgcccccct 440

<210> 41466

<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D11

<400> 41466

cgcgtgtcta ggtttcctct ctcaccatag cgcccgctct gtcgcccttc gttcacctgt 60

ccttcctctc ctccctgcct gccagggaga ggggaagtca gaggcacgga gtggcgcaga 120

gcagacgccc gtgaaccatt gtagctgtcc ctgtcgtcgt catcgtcgtc gtcaacgaat 180

ccgcacaagg aaaagatgga gaagaagccg accatcctca tgaacaggta cgagctcggg 240

cgcacgctcg ggcagggcac cttcgccaag ggggtacccg gtcgggacct cgcgttcggc 300

gagagcgtgg ccatcaaggt catcgacaag gagaaagtga tgcgcgtcgg catgatcgac 360

cagatcaagc gcgagat 377

<210> 41467
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D12

<400> 41467

cccacgcgtc cgaccagctt gtgaagtgaa taagaagctc taaatcaaga aggatattta 60

ctagaccaga agcatggttt gggtgggata tctctacatg attttgttgc tgttctgact 120

ttgtttgtgc tcccgaactt gagtttgcaa tcaaattatg ataatggtat tgactctcat 180

atgaaagcat ggcatatgga atttaatact gtgtatgact gtggac 226

<210> 41468
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D2

<400> 41468

gacaaaacat ggctgtgaat gtgagaacca tgtggtcgtc gatgcgggca caggttgcga 60

tggttgtggc gttggtgttc ttggtgagcg gcgcatggtg cggtcctccc aaagtccccc 120

caggcaagaa catcacggcc acctatggca aggactggct ggacgctaaa gcgacatggt 180

atggcaagcc gacaggtgcc ggtcccgacg ataacggtgg ctgctgcggg tacaaggacg 240

tgaacaagcc ccccttcaat agcatgggcg catgcggcaa catccccatc ttcaaggatg 300

gtctgggttg tgggtcctgc ttcgagatca agtgcgataa gcctgtggag tgctccggca 360

agcccgtggt ggtgcacatc acggacatga actatgagcc tatcgcggcg taccacttcg 420

atttagcatg cacggcgttc 440

<210> 41469
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D3

<400> 41469

cccacgcgtc cgcccacgcg tccgaccaaa tcgaatccgt ggtgcactgc ccctccccgg 60

ccctcacaag ccgccgccgc cgtgaggact ccggcgaatg gcgtcccgcg tcgcctcggg 120

ccttctccgt cgtcgcgccg tcgccactct agggctacta aggagtcata cacatgtcag 180

aaactacagc agtcaacttt cagctttgat tccagctact tctcaatgct caaatctgac 240

aagaagacgc tattacttac ctaatccatc tctgtaccaa gtttggagta ggtcatttgc 300

ctcagacagc ggagacaagt tcgaggctgt tgtgcccttc atgggtgaat ctgtaactga 360

tggaactctt gctaacttct taaagaagcc tggagacaga gtcgaggccg atgaacccat 420

agcgcagatt gaaactgata aggtcactat agatgtcgc 459

<210> 41470
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D5

<400> 41470

gctggttcgt ggatggcggt gccacaacct ctcctgctgt cgctgctggt cgccgtgcga 60

gcggtggccg ccgatgtcgc caacgccggc cacgccaagc ccctaacgcc tggcgggcgc 120

gtggtacacg acaaccacgg caagttcacg gccgggccgt ggaaacccgc ccacgcaacc 180

ttctacggcg ggcgtgacgg gtccggcacc acggcgggcg cgtgcgggta caaggacacg 240

cgcacgcagg ggtacggcgt gcagacggtg gccgtgagca ctgtgctgtt cggtgacggc 300

gcggcctgcg gagggtgcta cgaggtgcgg tgcgtggaca gccctagcgg gtgcaagccc 360

gacgcggcag cgctggtggt gacggtgacc gacctgtgcc ctgccaagga ccagtggtgc 420

aagccaccgc gggagcactt cgacctcagc atg 453

<210> 41471
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D9

<400> 41471

cggacgcgtg ggctgcagtc atctcctcca ccaccaccac caagctcaac aacagccagg 60

tcgcgaaaat aatgaagagc cgcagcatgg catcatcggc cgcgctcttg gtgctagccc 120

tcgcgctagt ggcggccacc gccccacagg tagcggaggc aaagaagaag agagcggcgg 180

atagcggcga ggcggcggag gcgaaaaaga tccaggacga cttctgctcg acgctgtgcg 240

agggcaagaa ggggacggac ctggtcgtgt gcaaggagtc ctgcgctctc tcccagcagt 300

ccaacctggt gctgtacggc aggatccagt gcaagggcaa gtgcaccgag cagaagggca 360

tcacggcgcc ggccatgaag gtctgccagg aggagtgcga caaggcgt 408

<210> 41472
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E10

<400> 41472

gcaaatcacc ggcaaggcta ccaagatcct atgtcattcc tgtgttactc tccgtggtcg 60

ggggggcttt ttttggccgc gggtggtgag atagaaaagc taaacgacat gcccacgtac 120

tccaccttcc ctaagctgct ccatgacacc aacgacttgg gcgcctccaa tcatgtccag 180

acagacacgc ctctggctgt tcccga 206

<210> 41473

<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E12

<400> 41473

aaagcaatca cagccggacg atccgagcag agaaggggag gtacctgcta cgactagcta 60

gattccacgc gcgatggcgc ccaccaggat ccgcgtggcc ttgctgagct tggcgctggt 120

ggggctgctc atctgccacc tcgccaccac cgccttcgcc ggcaagaaca gaatccgcat 180

cctcgacagc gtcgacgact cggccgggga caacaacagc tccgacgcct cggccgggga 240

caacagcacc gactccgagt cggaaggccg cgtcgtctat tccgacatga agctggctga 300

tgagacggga tctgcgccgg ctccggcacc ggcgccgggg ccgacgacc 349

<210> 41474
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E3

<400> 41474

gtttaaataa ggagacaggc tgtgtagtgt agtctagtgc taccaggatc ggatcagcgg 60

ctgctgcgct tcagttgccg ccggcggcat gagggtggtg gtgacgggcg cgacggggta 120

cctgggaggc cgcctgtgcg cggcgctggc cggcgcgggc cacgccgtgc gcgcgctcgt 180

ccgccactcc agcgacgtct ccggcctgcc ccgcgacatc gagatgacct acggcgacgt 240

caccgacgcc gagtccctcg ccgtggcctt cgacggctgc gacgtcgtgt tccacgtcgc 300

cgcggccgtt gagccgtggt tgcccgaccc ctccgttttc ttcaaagtta atgtacgtgg 360

acttgagaat gtgttgaagg ctgtcaagag aacaccaact gtgaagaaga taatctacac 420

atcttctttc tttgcaattg gtccaactga tggttatg 458

<210> 41475
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E4

<400> 41475

cggacgcgtg ggaaataatt gggaataaat agttcgtgaa tccctgaagc gtgcatatgg 60

atattcctgc caagataaag gtaatggagt cgtcacgcag gttccagccg gccgtcatcc 120

tgcttctcct gctcattgtg tccaccgata tggcacaggc aagggaatgc gagaagtaca 180

gtgagcgatt tgttggggca tgcatgatcg cagacaactg cgccaatgtg tgccgcggtg 240

agggcttctt ggccggcagg tgcagcacct tccgccgccg ctgcatctgc actaggcagt 300

gctaaacaag atcgctcgat cgctcgccat gcatcgacaa cctattctta ataacgttca 360

ttatctcgtt cttatttatg acgaatgtca tgtatgttct ggtgactgtc atgtatattc 420

tgatgactgt catgtatctt gttcatgtat gctc 454

<210> 41476
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B6

<400> 41476

cagagccagt acgtgcgaag cagcacgcac gctgctggtc cgcgtacgcg agacgacggg 60

caggtcggcc ggtgcctttg agtttggaat aatgacggcg acgacgacga cggccgtcgg 120

cggcggcaag gtgcagccgc gcgggctgcc cgcggcgctg tccctgctgc tgctcctggt 180

gttggcagcg gggctgggcg gtggcgccga ggcgcatcag acgtgcgcgg ggcagctgcg 240

cgggctggcc ccctgcttgc gctacagcgt gccgtccttg ccggggcagg ttccgtcggc 300

gcccgggccc gagtgctgct ccgcgctggg gggcgtgtcc agggactgcg cctgctgaac 360

gttcagcatc atcaacagcc tgccggtcaa gtgc 394

<210> 41477
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B7

<400> 41477

cgtgaagaac gctttcgtgc tctatacaaa gggtggcttc catctgggat cggcgtcggg 60

ccatatgtgg gtctcaactt ggctgtatat gagtccctca aagactggct actccagaca 120

aattcatttg gccttgcaaa tgacaacgag ctgcacgtag ttacaaggct tgggtgtgga 180

gctgtggcgg gaaccattgg ccagactgtt gcatacccgc ttgatgtcat caggagaaga 240

atgcacatgg ttggttggag ccatgctgac tctattgtta ctgggcaaag caaagaagca 300

ctccagtaca atggcatgat cgatgcattc aggaagactg ttcgtcatga aggagttggt 360

gctctgtaca agggtcttgt gccgaactca gtcaaggtgg tgccctcaat tgccattgca 420

tttgtgactt acgaggttgt gaaagatgtt c 451

<210> 41478
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B9

<400> 41478

gataaagcaa aggttactct tgaacacacc tctcttctgt tatccaatct ttactcatcc 60

acgcggaggg 70

<210> 41479
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C1

<400> 41479

gtcatcgatc tcgtttcaaa tccatccatc ctcgtttcct ccgtcccgca gcatctcagg 60

cccatggcca ggatcaagat cgggatcaat gggttcggca ggatcggaag gctggtggcc 120

agggtggccc tgcagagtga cgatgtcgag ctcgtcgccg tgaacgaccc cttcatcagc 180

accgactaca tgacctacat gttcaagtac gacactgtgc acggacagtg gaagcaccat 240

gaagtcaagg tgaaggactc caaaaccctt ctctttggtg agaaggaggt tgctgggttt 300

ggctgcagga accctgaaga gatcccgtgg ggttcggttg gtgctgaaat atgtgttgag 360

tctactggtg ttttcactga ccaggagaag gctgcagctc acttgaaggg tg 412

<210> 41480

<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C11

<400> 41480

gctgcgcgtc acgctggacc tcatcaccga ggcttccggc tccatgtcgg ccgaggtcgc 60

actgccgccg tcggacgcgc cggcgccgtt cggagggtac ggctcgtcgg ctggcgcccc 120

cgcctacggc gctccgtctc ctgatgcccc atcttatggc gccagcgtac catcaccgac 180

ctcggagcag agtactgctt cgactgcatg agtgatatcg tggcggcaca cacgcatctt 240

ggtcactcct atccatgggt cgaattaccg accgaaaagt ctggttcctc ggccaatttc 300

tcgttcccgg tcagctaggg gaagcatttc tcggcccggt atcacatttt aaaaatatga 360

aagtcaattt tttttgttca aaacgaaact ttggaacagt gaatcgaaaa agggaagcct 420

gttgcttact atg 433

<210> 41481
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C12

<400> 41481

gaaaatagtg ggatcgagtt gtttcactgc acgagcacat cctccggcga ccaccggcct 60

gcctctccgt cctctagcga ccgaccaacg cgccgagcga agatgtcgtg gcagacgtac 120

gtggacgagc acctgatgtg cgagatcgag ggccaccacc tcacgtcggc ggccatcgtc 180

ggccacgacg gcgccacctg ggctcagagc accgcgttcc ccgagttcaa gcccgaggag 240

atggctgcca tcatgaagga tttcgacgag ccggggcacc tcgccccgac cggcctgatc 300

ctggg 305

<210> 41482
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C3

<400> 41482

cgttactgtt tttagtcgtt ggcatttcaa tggctctgac accatggtta gctgctggag 60

ggcagtttct ggcatcaaaa tttgagcagc atgatgtgag gagtttattg cctgtggaaa 120

gtgagactga cgatttgcac gaccatatta ttatattagg ctttggacgt gttgggcaga 180

tcgttgcgca actcctgtca gagcggttaa ttccttttgt tgcccttgat gttagaagtg 240

atcgggttgc agttgggcgt gcacttgacc ttccggtata ttttggggat gctggaagca 300

gagaggtact gcacaaagtt ggagctgaaa gagcttgtgc tgctgcaatt actttggata 360

cccctggtgc aaacta 376

<210> 41483
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C5

<400> 41483

tgatgctatg ctctgttcag tttaaaactc tggtgaaggt ccttgaggtg aggtatgtga 60

tgacttatga gtagaagatg acaaatatgc tctttcccta tgatggaaga gtatattctg 120

taacagacaa gcctggaaac cccactcagg tgaaatgtgc cagagtaaat tgaaagggga 180

tcatttatga tgtgttctga tgcaatccta atgtggtgaa tggggaaaac ctcttctgtg 240

gctcttcaac tggggtctta actctcatct cgtgctgact tcctgacctt ccagtttaac 300

atggtgctgg gctgcctcta cgtcaacctg gttggtccag gctgtgcagt ctccaaccat 360

ggttgtctcc aaaggatgtg cagctgacgt gatggtgctt atcaccacac cctcagagct 420

catcaccac 429

<210> 41484
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C6

<400> 41484

gagcaagatt ggctcgtcgg actccggcgc tgccgccacc ggctcggcag ccgtcgccgg 60

tgccgtcgcc gctgtggggt cggttgcggc gctgggcggc ggcatcccgg aatcggtcac 120

cgtggcatgc cccgaccacc tggtgatcgc ggacctaccc gtcgcgaaga gcctcggtgc 180

cgtcacgacc tccgctgccg ccgtcacgcg cgccatcggc cgtcgctccc gtcgcccgct 240

cggggagcgc gtccacatct gctcccgctg cgagttcccc atcgccatct acggccgtct 300

catcccttgt gaacatgcct tttgtttaac ctgtgcaaga agtgattcca gctgctatct 360

ttgtgatgag cgcattcaga agatacaaag tgtgaaaatg atggagggga ttttcatctg 420

tgctg 425

<210> 41485
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-021-Q1-K1-C8

<400> 41485

gccagctatc acattcgcta gatcacacca atgataagga acaggtcaag ccctacaagg 60

gctacatnca caacgttccg aggggactac acgcacattc acaacgccgc agctaataca 120

gcaccaatac cattcccgcg acaacaacca tcggctggaa ccgacaccta agcctcgtac 180

tgtcgtgacc cgacgatgac caccctgaac ctacccgact acccgaatca atgaccgact 240

ccaactgcga cacactaccg tgcacgcctt acgtgacaca acgaccacgc gagtaccatc 300

gtgtgtcgcc aaatgagact catggactgc aacgcactat cggctcccat acagctcgga 360

cctcaccata ggccatcgtc acacgacgca accgtgcatc tacacgatcg aactaaaaga 420

cagccacgat gaggacatat actcactagt gc 452

<210> 41486
<211> 360
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-021-Q1-K1-C9

<400> 41486

gtcaattgag caagcatcga cgagaatagg gaagaagtac atgaatcacc gcgggtccat 60

gcggtggcat ggttgggagc tctgcgctgg gtggattgcg cagtgcggac acgaggatct 120

gaggaatcat cctggtacct ggaatctcaa gtcccaggag aagaacaggt ggttcaagag 180

gatccacaca gtgaggagtt cgatttgatc taggtggcgt ctcccagttg actttatgac 240

gccaaggatg gactttagtt tgatctatat ttatatttta ttttggaaga ctaccactat 300

gtaataagta ctctgatgat attgtgacat ttatctctca naaaaaaaag atacaataac 360

<210> 41487
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B5

<400> 41487

ctgggagtcc accgtcagga acgtcaagtt cgtgtcggac aagacgggga agccggtgtg 60

cattatcacc cccaccgagg ccgcgcacat tcaggccacc gtggcgtgcg ggcgcaagca 120

cgggctgcgg gtccgcgtgc ggagcggcgg gcacgactac gagggcctgt cgtaccggtc 180

cgccaagccg gagacgttcg ccgtggtgga cctgtccatg atgcggcagg tgcgcatcga 240

cggcaaggcc gccacggcgt gggtggactc cggcgcgcag ctcggcgagc tctactacgc 300

cgtggcgaag atgaccccca gcctcgggtt cccggcgggc gtgtgcgcca cgatcggcgt 360

cgggggccac ttcagcgggg gcggcttcgg catgctgctg cgcaagtacg gcaccgtctg 420

tgacaacgtc atcgacgcca aggtggtgga c 451

<210> 41488
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A11

<400> 41488

cggacgcgtg gggtgctcaa ggcggccatg gccatcaatg ccaactgcct catggagatg 60

agcatcccgg acacgtatat agacacgctc cctaagaacg ggagagccag cctcggggac 120

gcgctgtacc gaatcatcac agatgtggag ttcgacccgg acgacttcct gtcgacggtg 180

gacctgacgt ctgagcacaa gatcctggac ctcaaggacc ggatcgaggc atcggtcatc 240

atctggaaca ggaaggtgca caacaaggac ggcaagtcct cttggggctc cgccgtcagc 300

caggagaaga gggagcagtt cgaggagcgg gcgcagacac tgctgctcat catcaagcac 360

aggttccccg gaatccccca gtccacgctc gacatcgcaa agatccaaga gaacagggac 420

gtcgggtttg cgct 434

<210> 41489
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A12

<400> 41489

cgcctaagca gctatcaacc aaccctagaa agctagacac cgtacccatg gctcgcgcta 60

gcgtcgtctt tgtcattgcc gctctcctct tcgtcgccat ggtcgtagca ccgatggccg 120

aggcaaagtc cgccgatgcc cctgtggctg acgcgccagc cgatggacct agcgggccgg 180

ctgctgcacc tggcccccag ggtgtcgaag gcctgtcagg caatgaggat gacaatgatg 240

acttcaccaa ttgaggccac acacgtcggc ccggttaaat ttggaacaag acatggaaga 300

aaaatgagag caatgtcttt aaaaccatga taatgtgtgg tcatccactc atccatggat 360

acatccttgc tctccctctt tttctttctg gttgatttt 399

<210> 41490
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A2

<400> 41490

cgacgagtga gcgcgatgga ggcggcgctg cgcgggatca gggccaagct gacggagcag 60

cgggagaagg tgatcagcgg tctgctgctg ggctcggcgg tggcgctggg gtggaagtcg 120

tcggagcagc agcgcgagat ccagagcctg ttggccgaga agagctctct ccgagccacc 180

aacgcctcta tgtccgccgc catgtgggcc tggcgggagg agctcttcgc cctcgccgcc 240

gcgccctcct cccccatttc cgcgtcccgg ctccgccaca tctacggcga ggaggagccc 300

gcgccgctcg cgcccgcgcc cgcgccgtca ggagcaaatg atgggaagga agaggaaccg 360

atctccatag cctgaactct ttccgcactt ttttccagtc gagcgtgtgc cgtccgtgta 420

catcatggcc ggctccctga aggctaggag gatgctttg 459

<210> 41491
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A3

<400> 41491

gcaagggctg cggctcatgc tacgaggtga gatgcaagga aaaacctgag tgctcgggcg 60

gtccagtcac ggtgtacatg gctgacatga actacgagcc tatcgctccc taccacttcg 120

acttgagcgg caaggccttc ggctccctgg caaagcccgg gctcaacgac aagattcgcc 180

actgcggcat catggacgtc gagttcagaa gggtgcgatg caagtacccc gccgggcaga 240

agatcgtgtt ccacatcgag aagggctgca accccaacta cctggccgtg ctggtgaagt 300

atgtggcgga cgacggcgac atcgtgctga tggaaatcca ggacaagttg tcggctgagt 360

ggaagcccat gaagctctct tggggcgcca tctggaggat ggacactgcc aaggcgctc 419

<210> 41492
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-021-Q1-K1-A4

<400> 41492

gcaagggctg cggctcatgc tacgaggtga gatgcaagga aaaacctgag tgctcgggcg 60

gtccagtcac ggtgtacatc agtgacatga actacgagcc tatcgctccc taccacttcg 120

acttgagcgg caaggccttc ggctccctgg caaagcccgg gctcaacgac aagattcgcc 180

actgcggcat catggacgtc gagttcagaa gggtgcgatg caagtacccc gccgggcaga 240

agatcgtgtt ccacatcgag aagggctgca accccaacta cctggccgtg ctggtgaagt 300

atgtggcgga cgacggcgac atcgtgctga tggaaatcca ggacaagttg tcggctgagt 360

ggaagcccat gaagctctct tggngcgcca tctggaggat ggacact 407

<210> 41493
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A6

<400> 41493

cggacgcgtg ggcccatcgc gtgccctcgc cgcagccatc ttccatgggg gaccagctga 60

cggacgagcg gatcgcggag gtcaaggagg ccttcagcct cttcgataag gatggcgacg 120

gctgcatcac taccaaggag cttggaactg tgatgcgctc ccttggccag aaccccactg 180

aagcagagct gcaggacatg atcaacgagg ttgatgctga tggcaatggg accattgact 240

tcccagagtt cctgaacctg atggcaagga agatgaagga caccgactcc gacgaggagc 300

ttaaggaggc ctttcgcgtc ttcgacaagg accagaatgg cttcatctcg gctgctgagc 360

tccgccatgt catgaccaac ctcggcgaga agctgactga cgaggaggtc gacgagatga 420

tccgtgaggc cgatgttga 439

<210> 41494
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A8

<400> 41494

cccgccccag ccctaggtcc cggcgtcctg gcgtccagcc ggcgcggcaa gccggtgcgg 60

ccagcccagc gtggcggcct gacgcggctc gccagcatgg atgcctcacc gacgcgtccc 120

cgcacgcgcc cgatcattgc gtggaggagt tgcacagcct cgccatcggc acgccgatca 180

tgccccacca tgcacggccg tcgtcatcag gaggagagac gcggtgagca tgcgcatcac 240

cttcgtcgtg cgtccaagcc tcgccatcat cgagctcgtc gacgccttcg ccctctcgcc 300

atcgaggagg gagccacgcc acgttcacct tatggtagtt tgtcgcggag gactgcgatc 360

catttccgag cttcgaggaa tcgaagatca aacttcggcg accaaatgac ctagttcttc 420

gagttccacg agattgaaga ccctaagc 448

<210> 41495
<211> 407

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A9

<400> 41495

cacctcttgg ggatgtagcg gcacaggtta atgtgcttcc agccactgat gacctagatg 60

gacaacagcc tacagaagag atcgatactg atcaggcacc tgagccaatg gtagaggttg 120

aggcaacaag ggaagaggat gggggtgata aagatgactc tggagatgca tcaacggaca 180

tcaaaggcca ggatgctgat gctaatattg acgcaaatgc aattccttta gaagaagagc 240

atgtagtggc aaagtcagag gcaataattg aatcatttga tgatgaccgg aaaacagaag 300

attcgaagga agatgctcag cgtactactg caactgatgt tgatgatgac atggaggagg 360

gagagttggc aaaagaacct gaagacaaga gtgacgttga tatgtca 407

<210> 41496
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B11

<400> 41496

gctggttcgt ggatggcggt gccacaacct ctcctgctgt cgctgctggt cgccgtgcta 60

gcggtggccg ccgatgtcgc caacgccggc cacgccaagc ccctaacgcc tggcgggcgc 120

gtggtacacg acaaccacgg caagttcacg gccgggccgt ggaaacccgc ccacgcaacc 180

ttctacggcg ggcgtgacgg gtccggcacc acggcgggcg cgtgcgggta caaggacacg 240

cgcacgcagg ggtacggcgt gcagacggtg gccgtgagca ctgtgctgtt cggtgacggc 300

gcggcctgcg gagggtgcta cgaggtgcgg tgcgtggaca gccctagcgg gtgcaagccc 360

gacgcggcag cgctggtggt gacggtgacc gacctgtgcc cgcccaagga ccagtggtgc 420

aagcca 426

<210> 41497
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B2

<400> 41497

ttttcctta gctatgcaga ggaaaaatga tgctgttcgt cccagtttaa acaaagggac 60

ggtggtttat gatccacatt cgacacatca gatgaaaaaa tgatttggtc tgggaacaaa 120

ggccaccaaa gatttttat cggctacaat aaatacaaat gttgagacaa gctcaatctt 180

cctcctcacg aatcagcgcg aaggagaatg gggcaaactt gtagccatca ccttcataga 240

acttgttctg gaactccacc cagtgaagcc tcagcgcgtg aaggaatgca ctcagggtct 300

ccataacaag caagacacca atcgtggcaa agatgaagat gacgacacca ataataagga 360

tgaaaacatt gttaaaccca tatgccgtca ttagtacttt ctcgtagaat acagtggaca 420

actcatagtg tgcaagactc agagcccaaa ga 452

<210> 41498
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-021-Q1-K1-B3

<400> 41498

cgacaagacg agacaagaga atgcctgtga gcaggatcgc cgtgggcgct ccgggcgagc 60

tgtcccaccc ggacaccgtc aaggccgccg tggccgagtt catctccatg ctcatcttcg 120

tcttcgccgg ctcaggatcg ggcatggcct tcagtaagct cacggacggt ggcgccgcca 180

ctcctgccgg cctcatcgcc gcgtctctgg cgcacgccct agccctcttc gtggccgtct 240

ccgtgggtgc caacatctcc ggcggccacg tgaaccctgc cgtgaccttc ggtgcctttg 300

tgggcggcaa catcagcctc ctcaaggccc tggtctactg ggtggcccag ctcctgggct 360

ccgtcgtcgc ctgccttctn ctcaagatcg ccacgggcgg cgcggccatt ggcgccttct 420

cgctgtcggc gggcgtc 437

<210> 41499
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B4

<400> 41499

cccacgcgtc cgggtggctg ttgtctgctc ctggtcttca gaagatattg ttaaaatatg 60

atggttcata ggatatctag tgtatagtct tcttgcagca aagaagataa tgttttgctg 120

tttcagcaaa catctgaagt atgagtctta ttattaagag gtcttttctt taacttatgg 180

cgagtttagc atcggtcagt tatcaaacag ttaaagcgtt ttctgaaatc ttgtttgaat 240

atccgcagtc ctttttttgg tttggcatgc agaattattc tgaaacgttt agtaccccgt 300

tgttcgtaaa ataaa 315

<210> 41500
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A10

<400> 41500

ggcagttgat gatctagact tggttatcaa aacccttgag gaaaacggct ttaaagatcg 60

gttttatatt cattgtgatg gtgccctttt tggattgatg ataccatttg ttaagaaggc 120

acctcaagtg acatttaaaa agcctattgg gagtgtcagc gtctctgggc acaagtttgt 180

cggatgcccc atgccatgtg gtgtccagat aacaaggttg gagcatataa atgccctttc 240

tagcaatgtg gagtatctgg cgtcaaggga tgcaacaatc atgggaagca agaatggcca 300

tgccccta 308

<210> 41501
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-G3

<400> 41501

ggggatgttc cagagccaat catgctcaag gaaggtcaag agttcaactt cacgattaaa 60

agaggggtga gcactgaaga cactgtcagc gtgaactatg atgacttcat aaatgatgtt 120

gaagctggcg acatactatt agtggatgga ggaatgatgt cgcttgctgt gaagtctaaa 180

acagccgata cagtcaagtg taaagtagtt gatggtgggg aattgaaatc acggcgccac 240

ctaaatgtcc gtggaaagag tgctactttg ccatctatca ctgagaagga ttgggaagac 300

ataaaatttg gtgtcgaaaa cggcgttgat ttctatgcag tttcctttgt gaaggatgcc 360

aaagttatcc atgaattaaa agactacctt anaagtgcta atgccgatat acatgtcatt 420

ccaaaaattg aaagtgcaga ttcaatacca aacctgcagt 460

<210> 41502
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G9

<400> 41502

atcaaaatca ctttgcgtgc agcatcgatt gggtcggaaa tcgagggttt ggtaagcgag 60

atcggcgccg gtgacagctg acagggacga gatggacgcc ggcggaggcg gcgtcttggt 120

cgccgttctc tgcatgctgc tggtcttcgc catcttcccc ctcctcctct ggcgccgccg 180

ctccgatgcc gccaccgccg ataaccaccg cgttccgccc cagcccctcc aggaggatca 240

tgtgctgcac ggtcgcgcgg cggcgcgacg gatgcgtcgg aggcctgggg ctgccggagc 300

aagctcctct actgcgtcaa ctaaccgcaa tgctgtaaag gacgacgcgg agagtgacga 360

tgaagaggtc cccgaaagtc gcaacgtccc caaatccttc aaaaa 405

<210> 41503
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H1

<400> 41503

atggggttat tcttattcct gagggccttg tggagagtat tcctgaacta tatgctctgc 60

ttgaggaaat ccatggcctc catggcaaag gtgtttctgt tgagaatatc tcttctcagc 120

tttcaccttg ggcatctgca ctctttgagt ttttgccccc ttttatcagg aagcagctac 180

tactacatcc tgaatctgat gattcagctc aactttccca gattgagact gaaaagctgc 240

tagcccagtt agttgagact gagatgaaca gacgtttgaa ggagggcact tacaaaggaa 300

agaagtttaa tgcaatctgt cacttctttg gctaccaagc taggggagca ctgccttcaa 360

agtttgattg cgattatgcc tacgttttgg ggcatgtgtg ctaccacatc at 412

<210> 41504
<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-H10

<400> 41504

aaaaaaggga cgggcggggc gtacgcanga agatnctata tnatttaaaa atgcggttgt 60

cttacaaaca aaaacttgaa ctgnaagtgt aacattttaa agggaatctg gacgtataaa 120

accatattgg aaaggaagat gcaaaatcga aggaaatgct cgataagttg catgaagcac 180

tgaaagagaa agatgaagaa atggatcata ttgattctat aaaccagacc cttattatta 240

agcaacgaag aaccaatgat gagctggaag aagccaagaa agaactgact actgacctac 300

ttaatatgtc atcagctcga tccattgttg gtgtcaaaaa aatgggtgag cttgacaaga 360

aagctttcat tgtctcttgc aaagagaaaa catcagacga gttgtcattg tcaattctgt 420

gctcgaaatg ggaagatgag atcatgcaac cagaatggca tctttt 466

<210> 41505
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H11

<400> 41505

cgtccggcga ccgaaccgcg gatttcaccc ctgccttttc ttctccccgt gtccaggccc 60

tggtgcccgc gcgttcccgt gcggcaactg gccgccgccg ccgcactacg ccaggtgccc 120

aattcctcgt cgggtcctcc gccggcgacg agcacccacc agaaaactgg agtggactct 180

acatgtcaag acagtatggc gccaggaagc aaggcggaga ggaaagcagc actagacgct 240

ggcgcatgga tgttcaatgt cggcacatcc gttggtatca tcatggtcaa caaagcctta 300

atggcaacgc attggtttag tttcgctaca acgttgaccg gacttcattt cgcgatgacg 360

accttgatga cattagtaat gaaatggctg gatat 395

<210> 41506
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H12

<400> 41506

gaaaaaacag aacgacccac gcgtacgccg acgcatcctc atatatctcc cctcactttt 60

tttgacagcc tgtccacaca ctaaggacct ctggttttca tacacaacgc tgtccgtctc 120

tttttcattc taaccgtgct ataatcctta tgcacaccta acacgacaac aaccaacaac 180

gaagaaactg cagcagactc tacatgcgct tatagaatca acccaggaac cttcgacatc 240

tgcaaactcg gatcgaacac tgacgcttag acgtactata caaagacatt ccatgacacc 300

ttgacgttaa acaacgaatc gatcgcaacc cccactgtta ttatccctac agccgactac 360

ctac 364

<210> 41507
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H5

<400> 41507

tttctccttc actgtctcac attttacctc tttgtatcaa cttttcagag gtagatatat 60

ttccctttac ctcaaagatc atcacttata gtatctttag gaacgccttc ttaaagatct 120

tatcaataaa cactcatatt ttatcatcta cccaatctct ctctttatcc ataataccac 180

<210> 41508
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H6

<400> 41508

atctatagga gaaccatcag cctccaattt tagccagcca gagaaactaa taagactctg 60

gccgcctcca tccgagcgaa caaaccatcc gaccccgtcc ccaatgcaat ccgtcttcga 120

cgtaccacca ccaccgcatg agcgagatgg agatgaagag gatcctcttc gccgtcctcg 180

tcttcatcga cgcctcggcc accgtaatgc tgtccttcac cgaggccttc gtcgagtgca 240

ccccaactgc ctccaagtcg ttcgccgagg ctaccgcttg cgctgtcgct tgcgctgccg 300

cttgcgccgt ctactctgag ccc 323

<210> 41509
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H9

<400> 41509

caggaagatg ctatatgatt tagaaatgca gttggcttcc aaacaaaaac ttgaactgga 60

aaggggacag ttgaggggga atcttgaggt atggaagcat atgggaaagg aagatgcaaa 120

atcgaaggaa atgctcgata agttgcatga agcactgaaa gagaaagatg aagaaatgga 180

tcatattgat tctataaacc agacccttat tattaagcaa cgaagaacca atgatgagct 240

ggaagaagcc aagaaagaac tgactactga cctacttaat atgtcatcag ctcgatccat 300

tgttggtgtc aaaaaaatgg gtgagcttga caagaaaact ttcattgtct 350

<210> 41510
<211> 477
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-021-Q1-K1-A1

<400> 41510

aatcgggcgt accccggtgc ccgttcaccg tcgttcacgc cgcgtgtgcg ctctggctgt 60

gccgctctct ctgtctctcc tgcgcgtggc gcagctgccg tcctatacca ggcgcccagg 120

tctagcctcg tcggtgcctt cgccaggtct ttctcgggcc cttcgccaac gacgagcgcc 180

cgctaggtta gaaggtatgc attcgtgttc ataatattgt atttgactaa aaagactggg 240

cctacgcatg ggggctccaa aacagaggtg gacttctgag gaagaggctg ctcttagagc 300

tggagtagcc agacatggag ttggaaattg gcgcatgata ttgaatgatc cagaacttag 360

ctccacattg cgctaccgct cgaatgttga cctaaaggac aaatggcgca acatgaatgt 420

aattgtcact tcatcgagta ctcgtgacag ggggagaact tncacgagga gaacccc 477

<210> 41511
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G2

<400> 41511

gaaactttta aacatttgcc catgtatgtt ttagaaagtt taatatttgc atgccttcta 60

tatgattttg tatatttttc ccatattatt cattttgcaa attaagtttc aaacgagtac 120

ttaggaggtt aatgacacag ttgtatgatt gtatatctta atggaagatc tgttaattta 180

ttaatgtttg cttgcataac atgtgcatga tgtcttttgt gtacagttta tcttaaattg 240

aactatataa agatttggtt tgatacttct gtatcttttg atcataaact cctatgttgg 300

aggccataga cagaactatc aacttaccct acttctcgca tggctaacgt tatagatgct 360

agtaaggttc tggtgtgcag cttggggttt taaacact 398

<210> 41512
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F1

<400> 41512

catcaaactc tctgcagggc cccggataca tcgagggtga gaagcaagat gctgtgggcg 60

aggtccaagg accggttcaa gagggagctg gatggcattc aggtggagct acaagcaacc 120

gacccgagcg aaatgagcat ggacatcgtc aagtcgcgag ccctctgaaa cagccccggc 180

cgctgcacct gcacgctgca ggggcgcatc ggctcctgca tgcccgtggg tcgtcgaatc 240

cttgcttgtg tgttgggaac ggtcttgtgt tttcgtgtcc ttgttttcct ggaagcaaaa 300

gccctgcatt ctatatgaga ctgtatgcca ttttccatct ttttctctcc ccatatctct 360

gccctagtcc tgctaccgct gtagactaga acttatttgg tgtttgatct cgtggcattg 420

tcgagtcttt tatgtgtcta tgcaatgcta g 451

<210> 41513
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F10

<400> 41513

gggacaggtc gaccaagagg gggttcgtcg tctgggaccc cctcaccggc agccggcagc 60

acgggggcat gcccagcgct agctacccgt cccactcgtg ccgctacacc tcctacaccg 120

gggccgtggt gtgtgccaag gccggctgcg acgacgacca cctcgactgc caggccggtc 180

cgttccgcgt ggtctgcgta gagaccaacc tcctgaagcc tgtattcgcg tgcgcgacca 240

gctactcgtc agtgaccggc gcgtggagtg ctcccgtgcc caaccatgac agccacgact 300

tcaactacta ctgcttgaga agctatggca agcagagcct tcttgtcggc gatgccgtct 360

acttcctctt ccaggatgac caaagcatcc tcacgtacga cctgggtagg ca 412

<210> 41514
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F11

<400> 41514

cggacgcgtg ggcgaagccc cacacacaca aaagcaaaaa gcatcatcac aataatggcc 60

cgcgcgtgtg tgttcctcgt ggtgctcctc ctggccgccg tcgcggtggc gccgtttgcg 120

ggggctgcgc gtgtggatgt cgtggagggc aggtccatgg cgtccgccga cgcgcctgag 180

gcggcggctg acgcgcccgc tcccggtccc gactccgcct catacccgga ctcgccgtcg 240

gaggcgccct ccagcagcag ctcattcgac tagccgcgca caacgcagtt cttgtcatga 300

tctatctagc aaataaaaag atcatatgtc tcgtttgatt ctctggaata actaatagta 360

tatatgctgc gcccggatga tatataaata tgtgcatcaa atgcgtgcgg caaacgca 418

<210> 41515
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-020-Q1-K1-F12

<400> 41515

cgccataccc ttcgacgagc tcaaaaggat caccaacaac ttcagcgacc gcgccctcat 60

cggggagggc tgctacgggc gcgtctacaa cgccacgctc agcgacggcc gcgccgccgt 120

catcaagaag ctcgacacca gcgcctcgca agactccgac accgacttcg ccgcgcagat 180

cgcgatggtc tccaagctga agaacgagta tttcctggag ctcctagggt actgcttgga 240

agacggcaac cgaatgctaa cctatcagtt cgccacaatg cgttctttgc acaacatact 300

acacgggaag aagggagtcc agggcgcgga gcccggtccc gtcctcaact gggctcagcg 360

agtcaagata gcctacgggg cagcgagagg gctggagtac ctgcacgaga aggtccagcc 420

gtacatcgtn caccgggaca 440

<210> 41516
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F2

<400> 41516

gcgcgccgcc tcgctgccgg ctgccggcac tgggacggga gccgctgccg ccatgccggt 60

ggggtactgt tactactacg gcggctcatt cgccgcggtg gagacggcgg ccttcttgaa 120

ggcgtgcggc cgatgcagcc gtcgcctcgg gcccggccac gacaccttca tctacagggg 180

cgaggtggcg ttctgcagcc aggagtgccg ggagaagcgg atcgagtacg acgagcgcat 240

ggagaagacc tgctgctcac tgacctccat caaggaggcc ccgtccgtgt ccggcgccag 300

cggctccgac cagtccggca gcggc 325

<210> 41517
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F3

<400> 41517

cattctggaa ggagcttgat ggtgtcaagc aggtatggaa gaacaggaag gacctcaagg 60

ttgaggacct tgggattgcg actttatttg gagttgagct ttatgcatgg ttctgcgtag 120

gcgagattgt tggcagaggt ttcaccttaa ccggctataa ggtctagttg atttccagtg 180

atttaagacc tgctttataa atcgacactt tagctgatgc ttgtcgaaac gacgatgata 240

cctgccttcc ttcacaattt tgtttcttgt aagagtctac ctagtgctga atgccagcaa 300

agacgggcac atggttgcaa cattgcctca ataatttgcc cgcgcaattc ttgattttga 360

tgcatgtaat tctttgtcag ttgcatgtgc tgcagtccct gcgtgcagac tcaaa 415

<210> 41518
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F4

<400> 41518

cggacgcgtg ggcggacgcg tgggcaaaac atcccctcga accatggttg ttttgcgacc 60

tcgaaaggtg gtaataacta acttggaaga aggaaaagta ctagaccttg atggcaaaat 120

gtggcctgat gcttctgata ctgatgcttc ctcccactat aaggttccgt tctcaagaac 180

tgtctacatt gagaaaactg attttcgcct aaaggactca aaagactact atgggctagc 240

ccctggtaaa tctgtcatgc taaggtatgc gttccccata aaatgcacag atgttatctc 300

tggtgatagt cctgatgata ttgttgaaat tcgagctgaa tatgatcctt tgaagacttc 360

taaactgaag ggtgttcttc actggattgc tgagccagca cctggtgtag agccattgaa 420

ggtggaagta agattattcg agaaattgtt catgtcag 458

<210> 41519
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F5

<400> 41519

cgtgaatccc tgaagcgtgc atatatatat tcctgccaag ataaaggtaa tggagtcgtc 60

acgcaggttc cagccggccg tcatcctgct tctcctgctc attgtgtcca ccgatatggc 120

acaggcaagg gaatgcgaga agtacagtga gcgatttgtt ggggcatgca tgatcgcaga 180

caactgcgcc aatgtgtgcc gcggtgaggg cttcttggcc ggcaggtgca gcaccttccg 240

ccgccgctgc atctgcacta ggcagtgcta aacaagatcg ctcgatcgct cgccatgcat 300

cgacaaccta ttcttaataa cgttcattat ctcgttctta tttatgacga atgtcatgta 360

tgttctggtg actgtcatgt atattctgat gactgtcatg tatcttgttc atgtatgctc 420

<210> 41520
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F6

<400> 41520

gtaaagatga taagaagggg catgatgatc agctagaaat accagaacct gcataagggg 60

caggtgaaga tgagttagaa attccagaac ctgccgaaga aaattatggt ggttatcatt 120

cagaagttga ggatgatagg cgtaaatatg aagatgaaga gttttatcat gagtcagaag 180

atgaatatgt tgacgactat gatgagcatg ttgagtccta caaatctgat gatgaccaaa 240

aagatttaac tgagccagga catgcatcgt ggttggacaa agttcagcag actgtacaaa 300

atgttttcca aaaattcaac ttttttaaga cccctgtaca tttgtcagag gcttctcatg 360

ttcgtaagga gtatgatgat gctagctcaa agctttca 398

<210> 41521
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F7

<400> 41521

gagacaccaa tcatcaaact tgtcatgcag ctttcaacca acccattata gacaccggac 60

ccagggctcg cgctagcgtc gtcttcgtcc ctgctgctct cctcttcgtc gccatggatg 120

tggcaccgat ggccgaagca atgtccgctg atgcccccta cgacgatgcc cgcggactcg 180

ctgctgacgc acctgtcgat ggacctatcg gaccggcagg tgcacctggt ccacagggcg 240

tagagggact atcggccatt gaggacgacg acgatgactc caccaactaa ggccaagcac 300

gtctgtccga ttgcatttgg aacatgatat gaaagaaaag tgagagcaat gtttttttaa 360

accaaaaatc cataataatg tgtggtcatc cgtgatatgt aattgatctc cctctctttc 420

tttctgtttg atttcgatgt gtta 444

<210> 41522
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F8

<400> 41522

ggtgaccgcc gccgacctca agccccgggc cacgctgacg tgctctccca agaagcgcat 60

ccagcaggtg gtgttcgcga gctacggcaa ccccatgggc atctgcggca actacaccat 120

cggcagctgc cacacgccgc gcgccaagga gctggtggag aaggcctgcc tcggcaagcg 180

catctgcacg ctgcccgtgt ccgccgacgt ctacggcggc gacgtcaact gccctggcac 240

caccgccacg ctcgccgtgc aggccaagtg ctccaagagg tcgcccagag ccgcgcagta 300

attcggtagt cgtcggcttc ggcctcggct tgctacctcc cgtcgtcttt cattcttcat 360

tgctgatgct gctgctgtac catgggacca ttatctgacc ggagacgtcg attcggattt 420

cggacccatc catgcgtggc tgggtgggga aacagattgt c 461

<210> 41523
<211> 332
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-F9

<400> 41523

cggagagatc tggtctgcca ttcccacgct ccttcccgtg aaccacaaac ctaacgcgga 60

gcggggcggg ccggccgccg ggcgaggtgc gcgtacctgc cgtcgatcgt cgccggatcc 120

atccaccatg ggcggtggca acggccagaa gtccaagatg gcccgcgagc gcaacttgga 180

gaagaacaag ggggccaagg ggagccagct cgagaccaac aagaaggcca tgagcatcca 240

gtgcaaagtg tgcatgcaaa cattcatgtg taccacgact gaagtgaagt gcanggagca 300

cgccgaggcc aaacattcca agacagacgt gt 332

<210> 41524
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G1

<400> 41524

aacgtgtccc acgccatcca aggcgcgacg gtggagatgg agtgccgcca cttcgagtcg 60

caggaggtcc gcgacaaggc ggaggcgacg acgggccccg gcggctggta caggatggag 120

atcagcggcg accaccagga cgagatctgc gacgtgcgcc tgctcaagag ccccgaggcg 180

gactgcgccg agatcgacca ctcccgcgac cgctgccgcg tcccgctcac ccgcaacgac 240

ggcatcaagc agagcggcgt ccgctacgcc aaccccatcg ccttcctccg caaggagccg 300

ctccccaact gcggcgagct gctccgcgcc tacgacctct acaacgagac gtccgagaat 360

tcctaagcgt ccaaacaaaa gttctctcgc tcgctttttt tttaaaaaaa aaatcccata 420

tacatatagc acatttgttt cggtttgttg atgcgcgcat gcatg 465

<210> 41525
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G10

<400> 41525

cccacgcgta cgaagagcaa tggcctttag gtcatccatc ttgcttgcca cggtggcgct 60

agcgacgcta ttcgcggtcg gttcgtgcac caccccgctc accttccagg tcagcaaggg 120

ctccaagcct ggccacttgg tcctcacccc caacgttgcc accatctctg acgtggagat 180

caaggagcac ggtggcgacg acttctcctt tacgctcaag gagggtccga ctggcacctg 240

gacgcttgac accaagaccc cgctcaagta ccccctctgc atccgcttcg ctgtcaagtc 300

cggtggctac cgcatcgccg acgacgtcat ccccgccaat ttcaaggccg gcaccaccta 360

caagaccacc ctcaacatgt aattagcctc ttatgacaaa taatattttg agagagctca 420

tctggaccaa gtgccagcga gctaaatatt aaatttttc ttt 463

<210> 41526
<211> 405

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-G11

<400> 41526

tgagatcaca ttctctgagg cacctgtctt tgtggaccct catgggcgtg gtttgcgtgc 60

cctggccang gcccagattg actctgttct ggatcttgca cggtgcacaa ttgtgtccga 120

gctctccaac aaggatttcg actcatatgt cctttctgag tcaagcttgt ttatctatcc 180

tctgaagatt gtcatcaaga cctgtggcac taccaagctc ctgctcacca ttccaagaat 240

ccttgagctt gctgaagagc tgtctatgcc acttgctgct gtgaagtact cccgtgggac 300

gttcatcttt cctggcgcac agacagcccc ccacaggagc ttctctgagg aagttgctgc 360

acttaaccgc tacttttgcg gcctgaaatc tggtggtaat gctta 405

<210> 41527
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E9

<400> 41527

cagagcggca tttcggataa cacaggtgag cgcgacgatg ggatccctcg ctaataacat 60

catggtcgtg ggcgccgtcc ttgcggcgct cgtcgccggc gggtcgtgcg ggcccccgaa 120

ggtgccaccc ggccccaaca tcaccaccaa ctacaacggc aagtggctca ccgctagggc 180

cacctggtac ggtcagccca acggtgccgg cgctcctgac aacggcggtg cgtgcgggat 240

caagaacgtg aacctgccac cctacagcgg catgacggcg tgcggcaacg tcctcatctt 300

caaggacggc aagggctgcg gctcatgcta cgaggtgaga tgcaaggaaa a 351

<210> 41528
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D4

<400> 41528

cccacgcgtc cgaacagcca gctcgcgaaa ataatgaaga gccgcagcat ggcatcatcg 60

gccgcgctct tggtgctagc cctcgcgcta gtggcggcca ccgccccaca ggtagcggag 120

gcaaagaaga agagagcggc ggagagcggc gaggcggcgg aggcgaagaa gatccaggac 180

gacttctgct cgacgctgtg cgagggcaag aaggggacgg acctggtcgt gtgcaaggag 240

tcctgcgcgc tctcccatca gtccaacctg gtgctgtacg gcaggatcca gtgcaagggc 300

aagtgcaccg agcagaatgg catcacggcg ccggccatga aggtctgcca ggaggagtgc 360

gacaaggcgt acgtggtg 378

<210> 41529
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D5

<400> 41529

gttcatgaac gataaaatct actcaagaca acttattttc acatcctcat acatcggggt 60

tcggtttttt tttttatttt catccaactt taatttattt gccctttttt catagcacac 120

tactgttcat ataatctctt tacccaactc aaaatgctat agggtcattt ctctttcacc 180

agctagaata ccatagatta cgtgtacact tgaatactct acccaaca 228

<210> 41530
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D7

<400> 41530

tccacgcgtc cgtgacatta ttctgaggca gctctcatct aagcagggtt gcctattagt 60

aaggcaatca ttcttccaca acaatccttc caattttgtt gacctgggtg gtggtgtaat 120

gggctgtaga ggttttcatt ctacctttcg agcaacccag agtggacttt cactcaatat 180

cgatgtgtcg actacaatga tagtgaaacc tggtcctgtc attgattttc tgcttgacaa 240

tcagaaagtt ggtgatccaa gcatgattga ttgggctaag gccaagcgtg cactgaagaa 300

cttgaggata aaaataagtc cagcgaacca acaacagaag attgttggtc tcagcgaaag 360

aacttgtcgt gagcaattat tcacactgaa acataaaaat ggtaacaatg gtgactctga 420

agagatcact gcttatgatt acttcgtaaa gc 452

<210> 41531
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-D8

<400> 41531

ggatcggcga cggcgaaggt gaagagctgg acaagggcgg cggcggcggc ggcggccacc 60

acaagcacga gggctacaag aacaaggatg gcaagggaaa cctgaagccc tctcagtgcg 120

gcggggagtg ccggcggcgg tgctccaaga cgcaccacaa gaagccgtgc ctcttcttct 180

gcaacaagtg ctgcgccaag tgcctgtgcg tgccgcctgg cacctacggc aacaaggaga 240

cctgcccctg ctacaacaac tggaagacca agaaaggagg gcccaagtgc ccgtgagaag 300

atggcggccc aatacgcggt tttcccggcg gctacgcggg cgggccgtcg gcccaacgta 360

acctaccacc gtagttggaa gcgtcgtang ttaggttagg aataacagnn ctctcttttt 420

tttctctcct cgttccgtgg ttgtttgggc cgggc 455

<210> 41532
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E1

<400> 41532

cgctccgctc ctgcttggtc gagatcactt cgccgccgcc gctttcgaga tctccgggtg 60

gagcaagcga gcaaaggcag cagccatgtc gctccgcgtg ctgaacccta acgccgaggt 120

gctcaacaag tcggcagcgc tgcacatgaa catcaacgcc gccaagggcc tccaggacgt 180

gctcaagacc aacctcggcc ccaagggcac catcaagatg cttgtgggtg gagctggtga 240

cctgaagctg acgaaggatg ggaacaccct cttgaaggaa atgcaaattc agaacccaac 300

tgcaatcatg attgcgagga cggctgtggc acatgatgac acaagtggtg atggcacaac 360

ctccactgtg ctatttatcg gggagctaat gaagcagtct gagcggtgca tcgatg 416

<210> 41533
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-E10

<400> 41533

cagaacggna ttcaatatta cacaggtgag cgttacgatg ggatccctcg ataataacat 60

catgagcggg ggcgccgttc ttttggcgct cgacaaccaa gggtcggacc gacccccgaa 120

ggaaccaccc ggccccaaca tcaacaccaa ctacaacggc aattgactca ccgctagggc 180

cacactggac tgtcagccca acggtgccgg ttctcctgac aactgcgtaa cgggcgggat 240

caagaacgcg aacctgccat cctacagagg catgactgcg tgcggccact tccacaattt 300

ctaggacgac aatgactgcg gctcatgcta cgatgagtga tgcgaggaac aacctgagtg 360

ctcgggcact ccaatcacgg cgtacataac tgacatgaac ta 402

<210> 41534
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-E11

<400> 41534

gcaaagggcc atccgctgcg gtcagtgtag gtttctgaat catagcttgg cgatgcctga 60

ggctggacaa atactgagct agccttcaga aaaaaaaaga aaagaaagag attgagaagc 120

agggagaaaa aatggcactg gcccattgag gaagcttgag aaccagttaa caagaattgc 180

caacatattc ttggacaatc ttgttaacag agttttaagg tttcccagca gacatttttc 240

gagtccagga agagcgcgtg caaccaccac attcatataa ttaataagca aggtttagag 300

aagaggcaac atgggcacaa agatgaagaa ngggatcctg aagccgttcc gctatatctc 360

aaccatcatg gatggtaagg aggctgaaat gcaaattggg ttcccgacgg atgtaaaaca 420

cgtggcacac atcggttggg at 442

<210> 41535
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E12

<400> 41535

cggacgcgtg ggcggacgcg tgggcggacg cgtgggggcc gtggcgcacc tcatcgccct 60

ctggggcgac ttctccgacg ccaggttcct cgaggtcaag tcctggctca cctgcacgct 120

cggcggaacc gacacctgcg aggacgcctg caaggacgcc cccgtcagcg acatcaagaa 180

cgtctgcata accaagagct tcgagttcga gaagctgctg cgcgtcacgc tggacctcat 240

caccgaggct tacggctcca tgtcggccga tgtcgcactg ccgacgtcgg acgcgccggc 300

gccggtcgga gggtacggct cgtcagctgg cgcccccgcc tacggcgctg cgtcttctga 360

tgccccagct tatggcgcca gcgtaccagc accgacctcg gagcagagta ctgcttagac 420

tgcatgagtg atatcgtggc ggcacacacg ca 452

<210> 41536
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E2

<400> 41536

ccacggcaga attccgattc cggccgcctc ctatacatag ccagccttcc accctctccc 60

ctggcccaac acagagcagc gagccgcgcg cggaggcgag gcgttcgcac acctcgcccg 120

cgccaccacc accgctccgt tgcgcccgcc agccgtcacg cgtgacgttt cccgggggggc 180

cgggggagag agaggcagaa ggaggaggca cggagaggac gagacaggat gctcgggttc 240

aggcagatgc cgtggtcgtc ggcgcatgag caggagcagg cgccgtcgga gcagctgtgc 300

gaggggggtgt cggccgtcgt ggcggcgcgc caggggatgg agaagccgct gacggctgtg 360

gcggaggcgt tcgatgagct ggcgcgcggc a 391

<210> 41537
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E3

<400> 41537

gatggacatt atctccgttg actcgcaatg acctcagtga ccacgggact actacaatcg 60

aatggcgaac gattgggtgg acacacattc taataccaca ctcatgatgg atctacgtac 120

tgagcagtgg ctaccaagcc acgtgctctc tagatatcca atgacatcca ttgagagagt 180

caaagaagat 190

<210> 41538
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E5

<400> 41538

gtttgctcta gattatgagt tctacaggtg ccaaaggttc acaacaaacc aatacaaagt 60

caaaagaaag ggttcaaatc aaaggagcaa agtaacgcac cggacagtgt ccggtgcact 120

aggaagatcg actctgaact tgccagtttc gggaatttga gaggccgctc ctctataatt 180

caccggactg tctggtgtaa cactggacta tccggtgtgc cagcggagca acggctactt 240

cgcgccaacg gtcgtctgca gagaacatta aatgtgctac aatgcgtgcc tgcgcgcgca 300

gaagtcagtg caggcgtcag aaggcgaacc ggacagtcta caggacctgt ccggtgcacc 360

accggactgt ccggtggccc caattgtcag agctccaacg gtcggaaccc aacgaccaag 420

tgatgtggct agcgcaccgc acagtgt 447

<210> 41539
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E7

<400> 41539

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgat tctggaaggc 60

taggagagga tgaagctagg atatactttc atcaacttat aaatgcggtt gattattgtc 120

atagccgagg agtgtaccat agagatctga agccagagaa tctacttctg gactcacatg 180

gaacccttaa agtttcagac tttggcctaa gtgcatttgc accacaaaca aaagaggatg 240

ggcttctgca tactgcctgt ggaactccaa actatgtagc gcctgaggtg ctcgctgata 300

aaggctataa tggtatggct gcagatgtat ggtcctgtgg cataatcttg cttgttctta 360

tggccggata cttacctttt gatgatgcca atctgatgag actgtacaaa ctgatctgcc 420

atgcaacttt tt 432

<210> 41540
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D3

<400> 41540

gtgatattcc tgaaaagcaa aaggaaaaga aaaggcagga gaataacgaa gcaagatctg 60

ccgcggctcc attttaactg gtcggcgcct ccgccgctgc cgtcttcccc ctctcccctc 120

cgtaccactc gtcttcgtct agcctcccgc ccgcagccac catggcaccc ggcctctaca 180

ccgacatcgg caagaaaacc agagatttgc tgtacaagga ctacaacacg caccagaagt 240

tctccctcac cacctgctcg ccccatggca tcgcaatcac agctgcagga acaaggaaaa 300

atgagtccac ctttggcgat cttcacactc aaattaagaa caataaattg acggtcgatg 360

tcaaagcgaa ctcagaatca gatcttttga caacaatcac ttgtgatgag attggtactc 420

cagggctcaa atcaattctc actttg 446

<210> 41541
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C1

<400> 41541

actgtatgtt ggaagagcac aaaagacgtc tgaaagagag atggagttga aggagaaatt 60

cgaaaagaat attcaagagg tagctgtgaa gttccaaaac actaacttgt atctgaagaa 120

cttagatgat aacattgatg atgaaaagtt gcgtgaaatc tttgctgagt atggcaatat 180

tacttcttgc aaggttatgc gggattctta tggtgttagc agagggtatg gattcgttgc 240

attcaaatat gctgaagatg ctaaccgagc tcttaccgag atgaatggca taatggttgg 300

aagcaagccc ctttatgtag ctcttgcaca gcgtaaagat gacagaaagg caaagctaca 360

ggcacagttt taacatatgc gtcctgttgc aatggcacct tcagtatgtc ctcgcatgcc 420

catg 424

<210> 41542
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C10

<400> 41542

caagaggaga tctgcgatgt ggtgctggcc cggagcccca acccggggtg cgcggagatc 60

gaggagttcc tggaccgtgc ccgcgtcccg ctcacctcca acaacggcat aaaacaacag 120

ggcgttcgtt acgccaaccc catggccttc ttccgtaagg acccgataaa cgattgccgc 180

gccctactat agacgaacga tctaaaagac gcctccgaaa caccatgatc agcctgcgcg 240

ctgggcatac ctgtatccat tgctgccctg cccgctcacc caagaattga agatggtagc 300

tgcactacgc gccatctgta tagtgataca ctatgcactg catgcgaagg catgagataa 360

tgggtctgac ctcat 375

<210> 41543
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C11

<400> 41543

cggacgcgtg ggtgctgacc ctcgccacgg tcgctacctc acggcatctg ctatgttccg 60

tgggaagatg agcaccaagg aagtggatga gcaaatgctg aacgtgcaga acaagaactc 120

ttcctacttt gtggagtgga tccctaacaa cgtgaagtcg agtgtgtgtg acattccacc 180

catcggcctg aagatgtcct ccacattcat cggcaactcg acctccatcc aggagatgtt 240

ccgccgcgtc agcgagcagt tcactgccat gttcaggagg aaggccttct tgcattggta 300

cacgggtgag ggcatggatg agatggagtt cactgaggca gagagtaaca tgaatgacct 360

<210> 41544
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-C12

<400> 41544

cggacgcgtg ggcgcataag ctggacatca gcgatgagtt caagcgtgtg atcgggtctc 60

tcggcgggca tgatgacaag atacgcatag ttctcaacaa ggccgaccaa gttgatgcac 120

agcagctgat gagagtgtac ggagcactgc tgtggtcgct cgggaaagtc ctgaacacac 180

cagaagtcat gcgtgtctac ataggttcat tcaacgacaa gccgatcagg gagacagcgg 240

ctgggccgct gggcatggag ctgttccaga aggaacaaga tgacttgctc tcggacctga 300

acgacatccc caagaaggcc tgcgaccgtc ggatcaacga gttcgtgaag cgggcgaagg 360

cggncaaggt ccacgcgcac ataatcagcc atctgaagaa aagatgcctg cgctgatg 418

<210> 41545
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-C2

<400> 41545

aactgccact ggtgctattg tgagttgggc atctcaaaag ttctccactg ctgtcttttt 60

cttgtatgag cagattcatc ctgatgatgc atttggggag caaatgatta gaaatcttga 120

gagtagagga tgccccccttc tcggtataaa tgctacacca accctgagtc acaaggagaa 180

acttttttctt ggcaatggat ggcagagagc cgttgcatgg gatatgctga aaatctataa 240

tgacttcatt gacagtcaag aaagacgcag gatcgaacgg ttagaactgt ttgatgagtt 300

tgaagagtgg tatatgatgc angaacacta ctgtgtggcc tatggaatca acgacgccga 360

gggcatattt gacagttttt gatttgggga gacat 395

<210> 41546
<211> 332

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C3

<400> 41546

tggatcgacc ggcgcgtcca aactggcact tgtgctatta acaattgggc atttcaaatt 60

ttctacactc ctgtcttttt cttgtatgag ccgattcata ctgatgaaac attttgaaag 120

catacgatta aaaaacctga aagtgaagaa ccccgaacgt tcgcattacc ggactcatga 180

tacatatctt ccagatgaga aacttttttct tagaaaccga tagaagacat ccgatacata 240

gaatataatg gaactctata aagaccacat tcgctaccgg gaacgtcatc gtattgacca 300

ggtcaaactt cgtggtcagg actattattg at 332

<210> 41547
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C5

<400> 41547

accagcagcc tccaataaaa gccagcacat ccaaataaaa ccgagagacc tcagccgtca 60

ggcaagccga ccgccgacgt accaccgcgc caacccgaga gaaagatgga gatgatcaag 120

aggatcctca tcgccgcgct cctcgtagtc gccgtctcgg ccaccgcagt gctggcctcc 180

accgaggccg ccgccgccgg cgccccagcc gcctccgagt cgtcggcgtc cgccgaagcc 240

cccgctggcg ccgccggcgc cggcgccggc accggcaccg ccgcggggcc ctccgccagc 300

ggcgccgcgc ccgccctcgc cgccgcgccc gccgcgctcc tcttctccct cctcgcctac 360

tacctgcact aagcggacgg acggacggac gcgcgcatgg cattggcatg catggactgt 420

tgaacatcta tgcatgcatg gacgacgtca 450

<210> 41548
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C6

<400> 41548

attcttggaa gatcgtcagc cattgtcatc agctgctgga tcggtcagca aaacatagga 60

gtggtctcta ttatcattat caagcagctc gccgagccct cttcctgaaa gaatgttgta 120

catattagca tttgaactct ggccagtatc gcggaagaag ttgggtgctg tttggttcac 180

gaaatgtaac gtaaagggta atggtaacgg tttacactcg attacggacg gtaacaagtt 240

tgaatagtcc ggtatcaaat tttagtatgg tatctgatta cggttggact aaaacaaaca 300

tgatttaacg ttatcactta cccattacgt tacaaatatt tgaatcaaac ggtaccttgg 360

tgtttaac 368

<210> 41549
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C7

<400> 41549

ctagggagca acaacaaggt ggacgcccta gatcagaaga gcctcggagg gatgatcgtc 60

gtgccgatag ggatcgtgaa aaatctcgtg aaagggtacg ggaaagagac cgtgaggaga 120

ggacccgtga acgttcgcat gaccggactc gtgatagaga tctacgagat gagaagcatc 180

accatagaga ccgtgagagg actcgggata gggagagagg aaaggaccgt gaaagagacc 240

acggtcgtga ccgggagcgt gatcgtcgtg acagggacaa ggatcgtggt cgggactatg 300

atagagaaag ggaccgtggt cgctctcatg atcgccatcg tgagagaggc agggaccgtg 360

gtgaaagaga ttatgagcgc accatccatg aacgtgaccg tggtcacatg catgagaggg 420

atgcagacta tggcaatggt gggacaaagc atgacaa 457

<210> 41550
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C8

<400> 41550

cggacgcgtg ggcggacgcg tgggatcgca tcgcagtcgc agcgcacgcc atcagctagc 60

agggagcgcg ctcctcgagc ccagcagaga aaggccggcc tacccactct ctctctctct 120

ccagtctcca ccggcagcgc caatagtaat agccatgggc tccaccgccg gcgacgtggc 180

cgcggtggtg gacgaggagg cgtgcatgta cgcgatgcag ctggcgtcgt cgtccatcct 240

gcccatgacg ctgaagaacg ccatcgagct gggcctgctg gaggtgctgc agaaggaggc 300

cggcggcggc aaggcggcgc tggcgcccga ggaggtggtg gcgcggatgc ccgcggcgcc 360

cggcgacccc gccgccgcgg cggccatggt ggaccgcatg ctccgcctgc tcgcctccta 420

cgacgtcgtc cggtgccaga tggaggaccg gga 453

<210> 41551
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C9

<400> 41551

agatggagga ctcgggctac cccatcatca tcgacatgaa gtactgcccc aacaagttat 60

gcaccgccaa tggtgcctcc aaggtcaccg tcaaggacgt caccttcaag aacatcaccg 120

gcacctcctc caccccggag gccgtcaacc tgctctgctc tgccaagatc ccatgcaccg 180

gcgtcaccat ggacgacgtc aacatcaagt acagtggcac caacaacaag accatggccg 240

tatgcaagaa cgctaagggc agcgccaagg gttgcctcaa ggagctcgca tgcttctaga 300

accaccatcg acccatctct ctagttatac aatgtgtttg gttgttggat gctg 354

<210> 41552
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D1

<400> 41552

gtcacaccct gttcttctga cccgccataa tccagactcc ctggacgagt ctgtcctgtg 60

gacagagagc agggacgttg gggatgggtt ccgctgcatt aggatggtca acaacatcta 120

cctgaacttt gatgctttac atggagacaa ggaccatggt ggtgtgcgcg acgggacggc 180

ccttgtgctg tgggagtggt gcgagggaga caaccagcgc tggaagattg ttccctggtg 240

aacaaggaaa tgtgtgaccg agcccgcacc aaggaggagc tcctgccgta ataagtgaag 300

tgattggtac tgaagtttct ggaaataaga ggctcttctg agatgcctgt ttgtgtgagt 360

atttgcgttt ccattccgtt ttcatgataa taaaacgcat tgattattaa tatatgtaat 420

gtgatgctac actgagtggc agcgttggta tatatt 456

<210> 41553
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D10

<400> 41553

gccggactgg aaattgccat gaggctgcta gagcccatca aggagcagtt cctcatccta 60

tccgacgctg acttctacca gcttgctgga gtcgcggcag tcgaggtaac cggcggacct 120

gatgtcccct tccaccctgg gaggcaggac aagcctgagc cttcaccgga aggccgtctt 180

tctgatgcca cccaatgttc tgatcacctt aggcaggttt tctccacaca gatgggttag 240

agcgaccagg acattgatgc gctttctggt ggtcacaccc tgagaagatg ccacaaggac 300

atgtctggat ttgagggagc ctggacggcc aaccctgtga tctttgacaa c 351

<210> 41554
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D11

<400> 41554

atgttcttca ccgtgacttg aagcctagca atcttctttt gaatgcaaac tgtgacctca 60

agatatgtga ttttgggctt gctcgcacca cctcagaaac tgattttatg actgaatatg 120

ttgtcacaag atggtataga gcaccagagc ttttgttgaa ctcctcagaa tatactgctg 180

ccatcgatgt gtggtctgtg ggctgtatat ttatggaact gatggaccgc aaacccttgt 240

ttcctggaag agaccatgtc catcagctac gtcttctaat ggagctcatt ggcacgccaa 300

atgagggtga tcttgatttt gtaaatgaaa atgcaagaag atata 345

<210> 41555
<211> 428

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D12

<400> 41555

tgacaagggg aacgatcatt gaggttaatg tcagtgagct tggtctggta actcccgctg 60

gaagaggtga ttgggggaaa tatgctcaag ttacaaacaa cccggagaac gatggctgta 120

tcaatgctgg tttgctagtg tagatccata gtgagatttt gttgatggag gagaatcgtc 180

ccatttgtat ctgctccgat atgctatttt ttgaccatgt catggctaat accacgagtt 240

tgttgtgcac catgggcata atgagcattc tgtattctcg ctgtgtgcta caaacatata 300

tggaggaata taaattagca gtatttgttt ttttttttt tgagctcccc ccacttcctc 360

aaaaccctag acagtcctta cctggaaaat ttccacatgt acaaccctta acaattgacc 420

tggtggaa 428

<210> 41556
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B9

<400> 41556

agaggatcca cacagtgagg agttcgattt gatctaggtg gcgtctccca gttgacttta 60

tgacgccaag gatggacttt agtttgatct atatttatat tttattttgt aagactacca 120

ctatgtaata agtactctga tgatattgtg acatttatct ctatacactc tgttactata 180

tgtgttgtct tctttggcgc atatatgaga tgcacccgac tttatccttt 230

<210> 41557
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A5

<400> 41557

cccacccgtc cgcggacgcg tggtggtata aaagttgctt cctactaatt ttcaacttta 60

acatgtattc ctcgagagat cgtgtataat gttgctaaaa tccaccttct acatcttcca 120

cggatcatcg aaggtgctac agatggaaag ggcacaggaa gacacggtat catcacagct 180

aggacatgca acgatatttt gattgctctt gctgccgtat aaccaataac tcacaagcgt 240

cttattgaga aggagctcga aggatttgcc attatgttga acaaaacacc acccactttg 300

acttttataa caaaggacaa gggtggaatc aacttctcat caacagtg 348

<210> 41558
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A6

<400> 41558

gggcggtcca aaggcgttcc cccctggaat ccatgagatc catcagtttc ttgaccgctt 60

ctacatgtca aggattggga tccggatgct gatagggctt ataaacacaa aaatgtcacc 120

catgacagtt gctcgaattg ctagtgaaga tgcacgtgct atttgcatgc gagagtatgg 180

atcatctcct gatgtcgaca tatatggtga tccaggtttt acatttccat atgttacacc 240

acatctacat ctcatgattt tcgagctggt gaagaactcc cttcgtgcgg tacaggaacg 300

gtatatggat tctgataagc ttgcacctcc agttcgaatc atagttgctg atggagcaga 360

ggatgtaact attaagatta gtgatgaagg tggtggaata ccaaggagtg ggctctcaag 420

gatttttacg tatctctata gtacagc 447

<210> 41559
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A7

<400> 41559

gggaggaggc gaggtgagag aggacgaaga gggcgcatcg tgggttgggt gatcacggcc 60

tgatggggtc gtggcgcaag gcctacggcg ccctcaagga ctccaccaag gtcggcctcg 120

ccaaggtcaa cagcgaattc aaggaattgg atattgcaat tgtgaaggca accaaccatg 180

ttgaatgccc tcccaaggaa cggcacgtca gaaaaatact cttggcgacc tcagcaaacc 240

gccctcgcgc agacctctcg tactgcatat acgcattgtc aaggagattg tccaagacaa 300

agaactggat agttgcgctc aagacattga tagtggtgca taggcttctg agggagggcg 360

atcccatgtt caaggaagag ttcctggcct actcatccag agggaaca 408

<210> 41560
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A8

<400> 41560

cggacgcgtg ggattattat tatggtataa taactttgct cgcgagacaa atggaggttc 60

tctaggtagt gtctctaacc tgtcgtactg acttctgtcg atagaagaga atggggccag 120

atgctgctta ggtgtgatct atcctatcca tccatggata ataaagaagt ttgtggattg 180

ctgttttatt 190

<210> 41561
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-A9

<400> 41561

aaggacttag agaagccttt gcggagtttg gtgaagtttt gcatgctcga gttgtgaccg 60

atcgtgtcag tgggttttct aagggatttg gctttgtaag gtatgctacg accgaagagg 120

cagccaaggg aatagaggga aaggatggaa agttccttga tggatgggtt atttttgcgg 180

aatacgctaa acccagacca ccaccggagg aaacagggat gaattcgcag ccccagcagt 240

catggggagc tccatcaggt tcctggggtg cacagtagat gaagtgatat tgtgagagcc 300

cctccctgtc ccagccctaa ggctcgtagc ggatcgtgag ggatgatttt gtgtggtgtg 360

tcgcacgtgt gaaatgcctt tgttgtccca atattcctac cgtgttgggg gtggtcgctt 420

gctcgcgtnc acgtctttca catgaaattg gtact 455

<210> 41562
<211> 423
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B1

<400> 41562

cgccagccag ccatcgtcac actggtgagc tctgcagtct gcactctgct tagctccgag 60

cttgagtgcg gtcgttgtta gctgttagct ccacagtcca cagttccaca cacacgtgca 120

gctgcactgc accaatggcc gccgtcgagg tccaggtccc gactgccgct cccgtcgagg 180

aggctgctgc tgctgctgca gcgggagtgg aggctgccca gctggccgcc gtcgagaccc 240

cgaacgagga gaccgctgct ccggcggcgg agaccgaggt cgtcgccgct aatgagccgg 300

tgtcggccga ggccgagact gagtccaagg aggtcgaggt cgaggccgag gccgtagctg 360

aggctgagcc gaccgaggca gagcccaagg aagcagagcc cgaggccgcc gcgcccgcag 420

cag 423

<210> 41563
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B10

<400> 41563

cggacgcgtg ggcggacgcg tggggccata tttgaaacag gtaagaattc atatataaga 60

gtgcgtatat atatatataa ttctgccaag acaaaggtaa tggagtcgtc acgcatgttc 120

cagccggcca tcatcctgct tctcctgctc attgtgacca ccgatgtggc gcaggcggcg 180

agggaatgcg agaaggacag cgagcgattc cttggggcat gcatggcgtc ggacaactgc 240

gccaacgtgt gccgcggtga gggcttctcc ggcggcaggt gcagcacctt ccgccgccgc 300

tgcatctgca ctaagccgtg ctaaattaac ctactcccgg cagttcgatg gtggacgttt 360

attctattta ttggcttact tgatttttt tgccctaaca ataagaaaac gcacgtgctg 420

gcatgtacgt tgtgttgtat atgcttttct tgctggcttc atttgctgat tact 474

<210> 41564
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B11

<400> 41564

cactgggtga ggacggactg ctaccaatct cttgacgaag catatgaaga tgggacaaat 60

cggcttgaat ctttgctatc aaaattacat tgcttcaacg tcccaacgct ttcttctggt 120

tctataaaac ttaatgttgg aggctttgga tcggcgacgc taaagtcaaa catgtcaaaa 180

gaagagtata aaaatatcgt tgtccaagct aaagaacaca tcttggctgg tgacattttt 240

caagcagttc taagccagcg cttggagaga cggacgttcg cggacccctt tgagatctac 300

cgtgcgttgc gcatcgtgaa tcctagccca tatatggcct atctacaggc acgaggctgt 360

attctcgtgg catcaagccc ttgaattctt acgcgggt 398

<210> 41565
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B12

<400> 41565

cactgggtga agactgactg ataccaatct cttgacgaag catatgaaca tgggacaaat 60

cgtgtggaat ctttactatc aaaattacat tgcttcaacc tcccaacgct ttcttctggt 120

tctataaaac ttaatgttgg aggctttgaa tcggcgacgc taaattcaaa catgtcaaaa 180

gaagagtata aaaatatcgt tgaccaagct aaagaacaca tcttggctga tgacattttt 240

caagcacttc taaaccatcg cttggataga cggacgttcg cagacccctt tgagatctac 300

cgtgcgttgc gcatcgtgaa tcctaaccaa tatatggcct atctacaggc acgaggctgt 360

attctcgtgg ca 372

<210> 41566
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B2

<400> 41566

cggacgcgtg ggcaagcagc aacgtctcga ccgtttacat ctctgtcatt gatgacgtca 60

tctgcaaggt ccgcgaggat ttcatcacct acggagtcgg tgacgccgtc ctaaacgagc 120

tccaggctct ctgggagatg aaaatgctac actgtggcgc gatctcgggg aacatagacc 180

gaaccaaggc tgctgccgcg tccgtcggag gcaccaccgg cacgacaccg tccgtgcacg 240

acctgaacgt gccgtacgag gccacatctg aggagtacgc caccccgacc gctgacatgt 300

tgttcccgcc gacaccattg cagaccccaa tccagactcc tctgccaggg acagacacag 360

cgatgtacaa catacccact ggcccttccg attatgcccc ctcaccgatc agcgatgtca 420

ggaat 425

<210> 41567
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B4

<400> 41567

attgaccgat ccatccacgc gttcggttcc agtttactgt agaaagtttc ttgcctattc 60

ctcatactcg ttcaattcct ggaactccgg gagattaaat ctatacacct tctccttctt 120

tacctgaaca tatataaaac ctcttgtttt gtgaaagcaa aggtgagtac acatcaacgt 180

actcaccaaa cgttctgttt agctaaagcg tactaacttt atgtgttgtg aagctccact 240

agttgctttt agcttgtcag atatttacta ttagcataag ccaaatttta tcaataacca 300

acccatgaac cgttttctta tcgatgaaca tcattatcat tatcgtatgc aaatccatta 360

attgaaccat attatcttga accattctta tctctaacca aacaatctta caatgctgct 420

cataaccgtg agcacgactt atatattctt ttct 454

<210> 41568
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B5

<400> 41568

aatctctaca tgcaagctgg cagtgagtat gtcagacaga tttctaagat tctgaagagc 60

caggttacga tgttgacatc cacatcatct acatctttgc cggaagaaat gttcacatgc 120

actctagaac tgcaaagttc ttgcaaaggt cataagagag attcaatttc tccacaatat 180

ttgaagccag ggactggtga atctcaactc tttcactgaa ggagtttgta tttggacaaa 240

tttgaaaagc agcaggatga aatcatcagg tggtggcctc tatatcttga tgatcaagat 300

tgtgtcggaa aagttcagct tggtatgaat ttatccatgt cttccaataa ctatgggtcc 360

gaaaagatgc tgcaaggtgg ccctgcagtg gataccatca tatatgacat ggttctggaa 420

gcggcaatga gggctcaaaa tttcaacagc aaaatgc 457

<210> 41569
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B6

<400> 41569

ctcctgttat gtagtaaaga tgtgacattc cttccacaaa attattaaaa taatatggag 60

atggtataaa ttatttaata acaaattata ataattatca ccataaataa ataaacacct 120

tgctctcttt taatattaaa atgctgtcgt gcgtctctta tgtccctaat tttcttcccc 180

ttccttgctc cttcttttct ttttttatg gacccttat ttcatttcac ttgccgtcgt 240

tctaaacttt ccagactgtg aaaccccctta cgtttctccc cttctttcct ttgtcatatt 300

ttccccttc gccactttgc tt 322

<210> 41570
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B7

<400> 41570

aggcaaccca ccactgagag gcacgcagag gttcaggaag ccggagacca agatgtggtc 60

ggtgttcagc ggcgatgaga cggcccccctt cttcggtttc ctcggcgccg ccgccgacct 120

cgtcttctca tgcatgggcg cagcgtacgg gaccgcgaag agcggcgtcg gcgtggcgtc 180

gacgcgtgtg atgcggccgg tgctcgtcat gacgtccatc gtgcccgtgg tcatggctgg 240

cgtgctcgct atctacgggc tcatcatcgc cgtcatgatc agcactggca tcaaccccaa 300

ggccaagccc tactaccttt ttgatggcta cgctcacctt tcgtccgggc ttgcctgtcg 360

ccttgctggg ctcgcagctg gcatggccat c 391

<210> 41571
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B8

<400> 41571

gtgccagctg actgggggag gtcgctagcc taatcctcga actcgttgaa gtccttgaac 60

tcctggagat tcgcctcgac accttctcct tctttacctg agcatatgtt gcacctgttg 120

ttttgtgaaa gcaagggtga gtacacatca acgtactcag caaatgttct gtttagctaa 180

ggtggactaa ctttatgtgg ggtgaagctc cagtagttgc ttttagtttg tcagatattt 240

attattagta gaagccaaat tttagcaata accaacccat gaaccgtttc ctcatcgagg 300

aacatcatta tcatcatcgt aggcaaatcc ataaatagaa ccatagtatc ttgaaccatt 360

tgtatctcta atcaaagaag cttacaaggc tgctcataac cgtgagcacg actgatatat 420

cggcttct 428

<210> 41572
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-A4

<400> 41572

ccgaagagct agcgcgcgat ggccaacaac ctcctccgtc cgctcgcgct cctcctggcc 60

gtcgtcggct gcgcgctgtg tccccgcgcc gatgccaccg cgttcgaggt cggcggcgac 120

gacgggtggg tcgtgccgcc ggccagcgac ggcggcaggt acaaccagtg ggcatccaag 180

aaccgcttcc tcgtcggcga cgtcgtccac ttcaagtaca gcgaggactc ggtgctggtg 240

gtgacggagg ccgactacga cagctgccgc gcgtcgcacc ccgtcttctt ctccaacaac 300

ggagacacgg aggtgacgct ggaccgtccg ggccccgtct acttcatcag cggcgagacc 360

ggccactgcg agcgctggca gcggatggtc gtcagggtcg ccggncaggg cgcacccccg 420

ccg 423

<210> 41573
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H1

<400> 41573

gcagcatcca tcgcgtgcgt acattaatct aagcgatctt catccagcct tctgctctgc 60

tccctcgaaa tggaggcgac gagcaaggcg atggcttcag gcctcctcgt tctgctgctt 120

ctcatcaaca caggctttgt cctgcccgtc cattccgagg actgctgggc cgacacccgc 180

gtcatctgca ccaagacgca caactgccgg gacgacactt gcgcggggcg cggcatgccg 240

gacggccgct gccactggga gttccccaac ctggtgccct tctgccagtg cctgcgcccc 300

aactgccact agtccgggcg cctcggattg gctcacttcg ccggcgatga tggatggtgc 360

ccaactgcga ctgcccagtc tgctccaatt cgtgttggtt aaggcataat atataaactg 420

ccaaattcac atgt 434

<210> 41574
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H10

<400> 41574

atttggcatt caatgctcat gagtattttg tggatgctgt aattccccca ccaccacacg 60

ataaatcttg gagtcgtgtg gtggatacca acctggaatc accaaaggat attgtcccag 120

aaggggtgcc attcacaggt tcagggtaca ggattgctcc ctactcttcc atcttgctta 180

aagcaaagcc ttataatggc ggaggcaagt cattctcaag taagcacgaa taatggtgtt 240

gtgatcccta acttttcaag ctcttagcca actgtactgc aagtatagca aactttggta 300

tgtgaagtcg gaccaaccct tgcggaaatc aacggaagcc atggtttgct aaaggtatac 360

tcatggagaa ttggagatat ggcaaacaca 390

<210> 41575
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H12

<400> 41575

ggcgcacagg atatggagag gcaggcgctc aatgttttcc ggatgaggct tcttggtgca 60

gaggtcaggg cggtacattc tgggacagca accctgaagg atgcaacttc agaggctatc 120

cgtgactggg tcacaaatgt ggagaccaca cactatatct tgggctctgt tgccggtccg 180

cacccgtacc cgatgatggt gagggagttc cataaggtta ttggcaagga aacccggagg 240

caggccatgg acaagtgggg tggcaagccg gacgtattgg ttgcctgcgt cggcggcgga 300

tcaaacgcca tgggcttatt ccatgagttt gttgaggatc aagatgtgag gctggttgga 360

gtggaagcaa ctggccatgg cgtaaacacc gacaagca 398

<210> 41576
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H2

<400> 41576

gaaaacagcc gagcgatctc ctctccctct ccctctccga tccattctcc agcgcagcga 60

agtaaacatg tctgaccggg caaagatgtc gtggcaggcg tacgtggacg agcacctgat 120

gtgcgagatc gagggccacc acctcgcggc ggcggccatc gtcggccacg acggtgccgc 180

ctgggcgcag agcacggcgt tccccgagtt caagaccgag gacatggcca acatcatgaa 240

ggacttcgac gagccagggc acctcgcgcc gacaggcctg ttcctcggac ctaccaagta 300

catggtcatc caaggcgagc ctggtgccgt catccgtggc aagaagggat c 351

<210> 41577
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-019-Q1-K1-H4

<400> 41577

ggcgcctcct ctaatttgat gggcattccg tttccttctc aacttcaacg ccaacaacag 60

ttgatgctac tatggttgga aatcgggcat ggttcggagg gcttttcagc ggctcaggca 120

aaaggcgaca agtcagtgca gagaagatag tgcttgatct aacccctgta caggaacaga 180

gactgcaaag tctgaaggaa aggctaaatg taccttacga cgaaactcgg acggatcatc 240

aagattcgct tagggctcta tggaatgcct cctttcccga tacagagctc actagcttag 300

tttcggaaca gtggaaagac atggggtggc agggcgtcaa cccagcaact gatttcaggg 360

gcttgggatt tgnttcgctt gagaaacctt ttgtttttg 399

<210> 41578
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H5

<400> 41578

atttgaaata atcgggaata aatagttcgt gaatccctga agcgtgcata tatatattcc 60

tgccaagata aaggtaatgg agtcgtcacg caggttccag ccggccgtca tcctgcttct 120

cctgctcatt gcgtccaccg atatggcaca ggcaagggaa tgcgagaagt acagtgagcg 180

atttgttggg gcatgcatga tcgcagacaa ctgcgccaat gtgtgccgcg gtgagggctt 240

cttggccggc aggtgcagca ccttccgccg ccgctgcatc tgcactaggc agagctaaac 300

aagatcgctc gatcgctcgc catgcatcga caacctattc ttaataacgt tcattatctc 360

gttcttattt atgacgaatg tcatgtatgt tctggtgact gtcatgtata ttctgatgac 420

tgtcatgta 429

<210> 41579
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H6

<400> 41579

gaaaatggcc cttagggtta ttgctgatag cttatctgag gaagaaatcg cggggttaaa 60

agaaatgttc aaaatgattg acagtgacaa cagtggtcat atcacattgg aggaactaaa 120

aactggcttg cagagagttg gtgctaattt gatggattcg gaaatcaatg ctctaatgga 180

agctgcagat atcgacaaca gtggcacaat tgattacggg gagttcattg ctgcaacttt 240

gcatataaac aaagttgaaa aggaggataa gctctttgct gctttctcat actttgacaa 300

agacggcagt ggttacataa ctcaagatga gctccaaaag gcatgtgagg agtttggctt 360

aggggatacc cgacttgagg acattattgg ggacatcgat caagacaatg atggacgaat 420

cgactacaat gagttcg 437

<210> 41580
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H7

<400> 41580

cggattggca tttcgaggca gacgtacgcg tgcgaatacc ggacgacgag cgagcagtct 60

atttattaca cccattaact aataacagct aactggaaac cttactcctc ggaccactat 120

attcaggagc tacgaaatga tccactcgcc agccatggag acgaacaaag taatctgcgc 180

cgatgtagtc gtcgccgtct ataccaccga cacgctggcc atagtcgatt tcgaggcgcc 240

ctcttaggcg ccctgatgcg catccggaga ttcggttggc cctagaacaa gcggtgccgt 300

cgccgacgac gtggccgccg gctgagcgct tgtaagctta ttactgggct actacctaca 360

ctgagcgact acacgcgggg cggcaacgtc gggatgc 397

<210> 41581
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H9

<400> 41581

cgcagcagcc gtaattcgac cgacctttt ttcggtcgtc ctccatatcg tctacgctgg 60

ctgtcgctac tatttttagg aatcaagatg agccgcggtg agcagtgcag atggtgatca 120

aagttctcag aagtatagtg tatggaagag gtgagctgat caaaccagca gtcacaccaa 180

ctgcatgtgc tgcatctgtt gagagaccat ctgatgtaaa gactgatgc 229

<210> 41582
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A1

<400> 41582

cgcacatgaa gatcctgctg aaatggatga cagggagaaa tgtcgtgaag ctgacctgcg 60

tgcgcgtggg caacgcgaag aagttcctct actccccgtc cactgaaagc agcagcagca 120

gcgccggcgc atcaccgtca tccacatcgg cctcgcagtg acggtcagtc gctgttaagc 180

cctggtgggg gttcttgatg ttgctttgtg gatcgatgga ggttgcctct ggtcattcgg 240

atcccatgtt taaccttgat gacgaacatt ggaaaaagca ttttgtttta tggactggaa 300

tagtctgcaa accatcacga tagcaatatt gttctgctgc tcctcagctg aggatgctgc 360

cctgtcctga actcctgatt ttgcttttga tctactatgt gatgatttgc tcttc 415

<210> 41583
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A10

<400> 41583

cgattctcaa gttgataaat gatggctgga tgctggtttt cgtgctccaa gcctgctgct 60

tctggcaggg aaaaaaagac ctgcccttgt tgcagcgttg ttgtttagaa tgacctatat 120

ttgactggta ttctgttacg gtggctttgc aaagctgttt gtttggttt 169

<210> 41584
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A12

<400> 41584

aaaaaaaaca gcagaatacg tagagtcgac tacgacagcg tccggcgagg aggcggaggc 60

gaaggtgagg aagaagctcg gcacccggtt ccccgcggct cgaatcaaaa agataatgca 120

agcagatgag gatgttggaa agattgcact agcagttcct gttttagttt cgaggtctct 180

tgaattgttt ttacaagatt taattgaccg tacttatgaa attactcttc aaagtggagc 240

aaagacactg aattccttcc acctgaagca atgtgtgaag aggtacagtt cttttgattt 300

cctaactgaa gttgtcagca aggtaccaga tcttggtggc gctgattcct gtggagatga 360

aagaggatta cctagaggaa gaaagtcaaa tggcgtgacc cagagaatga tgaatcaaga 420

tctagtaaaa 430

<210> 41585
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A3

<400> 41585

cggacgcgtg gggtttcaaa ggttgcttcc tacgagttta caactttaac atgtattcct 60

ggagttatca tgtataaggg tgctaaaatc cagcttctac atctcccagg gatcatcgaa 120

ggtgctaaag atggaaaggg cagaggaaga caggttatca gcacagctag gacatgcaat 180

gttattttga ttgttcttga tgccataaaa ccaataactc acaagcgtct tattgagaag 240

gagcttgaaa ggatttggca ttaggttgaa caaaacacca cccaatttgc ctttcagaag 300

aaaggacaag ggtggaatca acttcacata aacagtgacg aacacacatt ttgaccttga 360

tacagtaaaa gcaatctgta gcgagtacag gatacataat gctgatgtct ccctgagata 420

tgat 424

<210> 41586
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E5

<400> 41586

gcttatacca tccgttccca agggctcctg gttagtgcga cagagtgttg gaagcacccc 60

ttgtctgttg ggaaaggctg ttgattgtag ttacgttcga ggtcctgcat acttggaggt 120

ggacgttgac attggatctt cggcggtagc aaatggagta ttgggtcttg cttttggtgt 180

ggtgacaaca ttagtagttg atatggcctt actaatacag gccaacacat atgaggagct 240

accggagcaa gtgataggcg catctcgact ggcttatggt gaaccggcca catgagtagt 300

tcctgatctt aacaacacat taaatgacag tagcaac 337

<210> 41587
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E7

<400> 41587

gcaaatggct gacggcgagg acatccatcc ccttgtttgt gacaatggaa ctggcatggt 60

caaggctggt tttgctggtg acgatgcgcc aagggctgtt ttcccaagca ttgttggacg 120

cccacgtcac actggcgtga tggttggcat ggggcagaag gatgcgtatg ttggcgatga 180

ggctcagtcc aagaggggta tcctgacttt gaagtacccg atcgaacatg gcattgtcaa 240

caactgggat gatatggaga agatctggca ccacaccttc tataacgaac tccgtgttgc 300

gcctgaagag caccctgtgc tgctgaccga agccccactc aacccaaagg ctaacaggga 360

gaagatgacc caaatcatgt ttgagacttt caatgttcct gccatgtatg 410

<210> 41588
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E8

<400> 41588

cagacgcgtg ggcatttgtg tttttgtttt aaaaacttgt ggttaaacca ctgtgctcgt 60

aaatatatga ggtacttttg tcccttaatc atttcacccc aatataccat ggccagaatg 120

ttctttgaac ataacttgtt tcttgggtgg catgggttta caaaatttcc atagcaaa 178

<210> 41589
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E9

<400> 41589

caacagtgaa catcaagctc ctgatttttt caacataatg ttagaatggc caaagggaga 60

ctgagatgga catgactagg attaagatga tgcgatgcac aaggccaact acgctagtaa 120

aatctgtcac tcctgcaacc caaactgcta agcacaagtg acagcaggga atggtaaata 180

ccatattgga gtatacacac ttcgaccaat tgcacaacgc gaggaaatca cttctgatta 240

caactgtgta actgacatca aacaagagca tgaagcatta ctctgacttt gtggaaatca 300

agtatgccat cacagccatt t 321

<210> 41590
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F1

<400> 41590

gaagatatgg agaaacgact cctggggcgc aatcagggaa gggttgatga taacattgag 60

actatcaaaa aaaggttcaa aacctttgtt gactcaactc tgcctgtcat tgagcattac 120

aactcaaagg acaaggttaa aaagattgat gctgcaaaac caatccccga ggtgtttgaa 180

gacgtcaaag ccatttttgc cccatattct ctaaaggctg aatagagcaa tctaagggac 240

atgataaagg tgatacatgg tgtctaggca ccacataaac atatctgtga ttatgatgga 300

ccctttaata tagaacaaaa gttttggctc atttgagcta ccagcgtacc agtaggcaat 360

tcgatttgtt accagcaaca agtgatctg 389

<210> 41591
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F11

<400> 41591

cggacgcgtg ggcggacgcg tgggagctcg acgctgacct tgtctacttc tggcagaagt 60

accgcaaatt ggctgatagc tcgcatgcga aaaatgaggc tcggaaggaa ctgcttgaag 120

tgatggccca caggtctcat gttgacagca gcgttgagct cattggaagc cttctctttg 180

gctccgagga cggtccaagg gttctgaaag ccgtccgtgc acctggtgaa cctctggttg 240

atgattggag ctgcctcaag tccatagttc gcacttttga ggcgcgatgc gggtccttgg 300

cgcagtatgg gatgaagcac atgcgatc 328

<210> 41592
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-019-Q1-K1-F6

<400> 41592

aaccagcagc ctccaataag agccagcctt agaaactaat aaaactctcg ccgccgccgt 60

ccgagcgaac aagccaaccg accccgtccc caaggcaatc cgccgccgac gtaccaccac 120

caccgcagga gcgagatgga gatgaagagg atcctcttcg ccgtcctcgt cgtcatcgcc 180

gcctcggcca ccgcagtgct ggcctccacc gaggccgccg ccgcgggcgc cccaactgcc 240

tccgagtcgt ccgccgaggc tcccgctggc gctggcgctg gcgctgccgc tggcgccgac 300

gcctcggggc cctccgtcag cagcggcgcg cccgccctcg ccgccgcgcc cgacgagctc 360

ctcttctccc tcctcgccta ctacctncac taagcgtgtg cgtgcgtacg tacgcgcgca 420

t 421

<210> 41593
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F8

<400> 41593

tctctctctc ctctctcggc cttcttcgcg tgtttccctc tttttcttag gccgccctct 60

acacttctcg acataaccat cgagagggcg gtcgagagaa acgagagcgg cagacaccat 120

ggggagctcg aggaccatcg ttgcgtcccc cctgctcctc ctcgccctcc tcctcctggc 180

tttcgcggcc accgccgagg cccgcgttgt ccccgagctg tttggcgagg accaattcca 240

gcggacatgc aaccaggtgc acttcaggaa gatgtgccag agcttgacga ggctcccgag 300

ggtgacaacg ccgcgcgaac tgctgctagc gtcgatgcgc gtcgcggcgg agaaggccag 360

ggaggccaag agccgggtgg acgagttcgc ggcg 394

<210> 41594
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F9

<400> 41594

ggcctacggc tcgacttcga cgagtggctc tgagcacgtg tcgtgcacgt tcccgggctc 60

ggcctcagcc tcatgtgtac tctctaaaga gctcgccgcg catcgcgatc agcacaggaa 120

cgagatggac cggctgatcc atgaacatgc ggacaggctc cggcgcgcgc tggccgacac 180

tcgtcggcgg cactaccgat cgctggtcgg cgcggctgac gcggctgctg ctcaacgggt 240

aaaggagaag g 251

<210> 41595
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-019-Q1-K1-G1

<400> 41595

ggaggatccg atccgaagcg agaggactga atcctgcggc cgggagggac gcgggaccac 60

gacgagcgtc gtcgtcggtg ccaagcaacg gcagttgtcc ctgtccagag cacaggcaag 120

atggttaacg cgatcaaggg gctgttcatc tcctgcgacg tacctatggc gcagttcatc 180

gtcaacctga acgcgtcgat gccgccgtcg gagaggttca tcgtgcacat gctcgaccct 240

accaacatgt tcgtgcaacc tcacgtggcg cacatgatca ggagcaagat cggngagttc 300

agggaccaga acagctacta gaagccgcag tagtggagga tctaccgagt tctacactcc 360

tacc 364

<210> 41596
<211> 315
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G11

<400> 41596

cgacgcgtac gcgaacacgt catcgatttg atcttagact atgtctacgt ctattgcggc 60

gccttcttcg gcgtcgggat gcgcccatcg aagtggacgc agacggtcaa gaagacgtac 120

aacctgctgc acaccacgag ccagcacacc gatccaggtg tacacgggga cattgacgac 180

aatcatgctc acgttcgact actccggcat gtggaacgtg cattacaaca tctagctgcg 240

gtactacctc tgcgtgcact tctacatgag cgtgatctca ctggggcaat cactgaacgt 300

ctagtacaac atgct 315

<210> 41597
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G12

<400> 41597

gtgtaattag aggagacccc tcatggcaca ccatgccaga ctcggagctg gcggggaaga 60

ttgtttaaac cattcaacac aaagcattta aaggaacctc aatggaatca ctggacaaag 120

acttcattgg atatgctaag attgaccata gtctcgcaaa attctggact atcttttagc 180

aataacatga agattccaat tgtcaaattg aacatatgga acttaagcat tgaattcaaa 240

aactgggcct tgaatcgacc gatcaggata tcaaagatgt gtttcaagca tttgacatat 300

attaacaca 309

<210> 41598
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G2

<400> 41598

cgatcagctg cactgcacct tcgtcgtctc cgaagaacgt cgatcgtact cgtacaccat 60

gaaggcagtc gtcgcggcga cgatgcttct gctggtgctg gtggccgcgg cgacggtggc 120

gagcgcagac caccgtgatg acgacggcca ccaccaccag cgccaccgcg gccagagctg 180

gcaccgccac agcggcggcg gccgagatgg ccgccggtcg acccctctgg cggggctgac 240

gcagtgcgtg acaagctgcg ggtctggggt cacctcctgc atgctggact gctaccagcc 300

gctggtcgac ctggaccccg tggagctgcc cgtctgcctc ctcaagtgca ccaacgacgc 360

catggtctgc gccaccggct tgcccgtcac cgggaacgtc tagcttgcta taactagccc 420

atcattatat atatatatct 440

<210> 41599
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E4

<400> 41599

cgtcaacaac agacagtaca gaggtaaatt ggaaaaaaca tctgtgttaa aagcagtatg 60

ctctgggttt gaggagacaa ctgaacctga tgtctgtttg cgcgaagata tcgagacaaa 120

tgaatgtttg gagaacaatg gtggttgctg gttagacaag gctaccaatg tttctgcgtg 180

caaggatacc ttccgtggtc gtgtctgcga atgccctatt gtgaatggtg tgaagtttat 240

cggtgatggg tacaaccact gtgaagcttc tggccttggt aggtgccaga tcaacaatgg 300

gggctgctgg aatgagacta ggaacgggaa gagtgtgtct gcctgctcaa accaagaagc 360

taaaggctgc aagtgcccag caagtttcaa gggcga 396

<210> 41600
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G3

<400> 41600

cggacgcgtg ggcggacgcg tgggcggtgc gggcggcctc cttttccacc tcctgctggt 60

gccagggccg ggagggcgtc gcggaggtgg cgcgcatggg gctcgccggg gacgggtcgg 120

cggacaccgc ccacctcagt aataatgaaa atgggcggtt catttatgga gttgcgagtt 180

ctcctggtaa aagagcatcg atggaggact tctatgaggc aagaatagac gacgttgatg 240

gagagaaaat tggaatgttc ggtgtatatg atggtcatgg aggagtccga gcagctgagt 300

atgttaagca gcacctttc agcaatttaa tcaaacaccc aaagttcatc actgatacca 360

aggctgctat cgccgaaact tacaacctta cagattcagg atttctgaaa gctgatagct 420

gtcaaactcg aga 433

<210> 41601
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C5

<400> 41601

agcaaatcgg tctgccctgg tttaccccgt cgtgaagcag aaacctatct gctgccatta 60

ccgtgctgcg cgccgtcgcg gtgaggcttg gccacaaccg tggaactgtc tccatatggc 120

gtaggcggcg taccgagctt cgcctgatgg atttgcagtc cagtgggccc ataatttctc 180

gccggaccgc gagcagcaac aacctctact cgccggccat gacctctacg cactccaagc 240

tctcctccga ggaccgtcat cttcgtgcat gtagtcgagt aaggtcacga ggatctgaag 300

aatcaccctg gtatctggaa tctcaagtgc taggagaaga gcaggtggtt cacgaggagc 360

cgcctaacac tgaggagttc gatctgatct aggtggcgtt tcccagtcga catt 414

<210> 41602
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C8

<400> 41602

caaggggtcc catggccaca cggcgtcact catggtatga acgtcaaccg tcgcagtcat 60

tagcggcatc ctaacaacaa cgacccatgg cgtatcatgc atcgaactgc caagtggcag 120

cacccaaggg gttgcactca agtgagactt gcgatgccct tctagactcc tcgcaatcga 180

tctgagccgc atctct 196

<210> 41603
<211> 268
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C9

<400> 41603

cagaacgcca caattaatga cacatccttt cgcgaccatg tgctcaatca tatagtgggg 60

gcatgatcgc gggctccatc cttgatactc tcatcgccgc cctttcctac atgcccccga 120

aagtaccacc cttcacaaaa catcaccacc aacaacaacg gcaagtatct caccactaag 180

cccaccatga accgtcagac taaccatacc gtcgctcttg acaaccaccc tcacctgggt 240

atcaagaacg ggaacctgcc accctaca 268

<210> 41604
<211> 358
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-019-Q1-K1-D1

<400> 41604

gttggacaag acgatatccg acatcgagat gcgcctggct gcggctagag ccgcccaggc 60

gatgagccag ggcatgtcac cgggcgactc ggactcggag ggcgaccagg gaaccgcgcg 120

gcgtaggatg tcttttgtca tgggcgtttt caccactctt gctaaccgga agcggagaga 180

ttcaataagg cagacgtgga tgccacaggg tgatcagttg cgaagattgg aagacaaggg 240

cgttgttatc cgttttgttg ttggacgcag tgcanatcca aacctggaaa atgaggtcga 300

ccatgcaatt gatatggagg atgaagaata cggtgatatt ttgagaattt atcatgtg 358

<210> 41605
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-D10

<400> 41605

gccgccgcta cggccgagaa gcggtccttt gcggtggagg ccgtgctgca gcagcagggg 60

aacatggacg tgtccctgtc caaggcgacg tcttccgggg acgagaacaa ctacgtgagc 120

gtggccgccg cctacgagaa ggccgcgggc gccgtcatcg tggcgacgcc ggacaacaag 180

ctccgcgcta tggcgttcgc gttcgacggc gcggtggcgc cggacccgga ccggtgcccc 240

gccgtcgaca agcccttctg cgagacctac gccaagacgg agaaggcctt cagcggaacc 300

atcgacttcg gtgacacgcg caagagcaag ctggtgatca c 341

<210> 41606
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-019-Q1-K1-D2

<400> 41606

cagagagata cccgatcgcc accgccgtcc ggactcccct caaaggcggc cacagcacag 60

cgagcatggg agaccggcat cagcatgggc ctggcagcgg cgtggaggac ccggcgacgc 120

tgctgcggcg ggtgcagacc cgcgcgccca actcgacgca ggtggtgggg ttcctgacgc 180

tgctcgtctc tggcgccgtg ctgctgctgc tgacgggggt gacgctgacg ggcgccgcgg 240

tggcgctcgt cttcctgggc cccatcgcgc tgctcaccag ccccatctgg gtgcccgtcg 300

ccgtcgagat ctccgncatc gtcgccgccg cgctcttcgg ctgcgccttc ggcggcgtcg 360

tgctccccgt gggcacctgg atgtacc 387

<210> 41607
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-D4

<400> 41607

agaataataa acatcatggg gcaagcctta cggctcgtcc tcctcgccgt cgtggcgctg 60

ctgtccgccg gcctcctccc gcaggcgctg ggtaagggta ggggaggcag gggacacggt 120

ggcgccgtca acccgcaggt cgccggcatc tgctctcgca ccccgttccc ggaggtgtgc 180

acgtccaccg acgggcggca cgcgtacaag tacccggtca tcgacaacct ggccgtgctg 240

aacatgcagg tggacgcgtt cgccaagcgc accgcgcagg cgcgcaagca cgtcgcgagg 300

tcggcccgca ccatcccgcc gcagcagacg caggcgctca cgttctgcga caccatgtac 360

atgaacacgc aggacaccat cggcgcagcg cagcgggcca ttacgttcaa ggacac 416

<210> 41608
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-D6

<400> 41608

cccacgcgtc cgccaaaagc ttgtggggaa aatggttaaa tggttaaagg tcggaggcca 60

tattttcttt agagaatcat gttttcacca atctggagat tccaaaagga aggtgaaccc 120

aacacactat cgagaaccaa ggttttatac caaggtattt aaagagggcc attcatttga 180

tcaagatgga ggttcgcttg aactttctct agtgacctgt aaatgcattg gggcttatgt 240

caaaaacaag aagaatcaaa accagatatg ctggttatgg gaaaaggtaa aatcaacaga 300

agacagagat tttcaaagat tcctggacaa cgtgcaatac aaaacaagtg ggatattacg 360

ttatgagcgt gtctttggtg aacgttttgt gagcactggt ggaatcgaga ctacaaagga 420

atttgtgg 428

<210> 41609
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E1

<400> 41609

gtcgtggggg ttctccggag ggcgcgagaa ggagcggatc ggcgtgggca agcagccgga 60

gatgcctcgc tccggcggcg gatccaccgc catgtccaag agcaagctct ctgacgcaga 120

atcagaaact gacagcgaag aatcagatgt gagtggttct gatggggaag atacttcgtg 180

gatttcatgg ttctgtagct taaagggcaa tgaatttttc tgtgaggttg atgatgacta 240

catacaagat gatttcaacc tctgtgggct aagcaaccaa gttccatatt atgactatgc 300

acttgatctg atattagatg ttgaatcttc ccatggtgat atgttgacag aagagcaaaa 360

tgaacttatt gaatcagctg ctgagatgct ctatggattg attcatgttc ggtatattat 420

<210> 41610

<211> 115
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E10

<400> 41610

agtagaggtc ctggagaggg tcacaactat agtctcatat attgtttatt gaggatgcca 60

tcgccttggt ttgagatctg taagcagttc ttttatccac aaacaagttg gtact 115

<210> 41611
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E11

<400> 41611

gacaatctac ggctaaccta gggttccctt cccgtccgga tccgtcgatg gtgagaggag 60

ggcgtggtgg catggccggc ggctgatggg agtaaatcgc ggccggagtg catcatctcg 120

tccaacccgt accacaagtg cactgactac tgcctccgca ggatcgccga ggccagccag 180

ggccttacct acaagctcct caactcgtgg aaccgcccgc ccagagcacc gtaccgtcca 240

ccggaactgc ataaacccct gcaaccctta ccacgagtgc tccgactact gctacaagcg 300

cat 303

<210> 41612
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E2

<400> 41612

cggacgcgtg gggcaacccc aactacctgg ccgtgctggt gaagtatgtg gcggacgacg 60

gcgacatcgt gctgatggaa atccaggaca agttgtcggc tgagtggaag cccatgaagc 120

tctcttgggg cgccatctgg aggatggaca ctgccaaggc gctcaagggc cccttctcca 180

tccgcctcac cagcgagtcc ggcaagaagg tcatcgccaa agacgtcatc ccggcgaact 240

ggagacccga tgccgtctac acttccaacg tccaattcta ctagactttg aattcccttc 300

gattcatccg gcacagcggg ctatggacct tcagcagcaa gctaattaag ttggcagcat 360

gcaccgctaa ccttatatac tactgagact tccaaattct agtatatgta atccttttg 419

<210> 41613
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E3

<400> 41613

caaattttac ccctacagtg cgtaattctg cacagaagaa gaacagtagt aaaacaggtg 60

taattgttgg ggttgtggtt ggtgcagcag ttttaggagt actagcactt gctggaatct 120

gtatgttgag gcagaaaagg agaaaactat tattggagca acaagagctt tacagtattg 180

ttggaagacc caatgtattt gtttatggtg agctaaggac cgctactgaa aattttagtt 240

ccaataacct tcttggtgaa ggaggatatg ggtcagttta taagggtaaa ttagctgatg 300

gaaaggtggt ggctgtaaaa cagttatctg aaacatctca tcagggaaaa cagcaatttg 360

cagccgaaat agaaactatt tctcgagtgc aac 393

<210> 41614
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C4

<400> 41614

ccagaccctt caggagatgt acaaccagtg gccgtttttc agggtgacga tagacctggt 60

cgagatggtg ttcgccaagg gtgatcctgg catcgcggcg ctgtacgaca agcttctggt 120

ttcagaggac ctgtggccat taggggcgcg tctcagagcc aactacgaag aaacaaagca 180

gcttctcctg caggtcgctg ggcacaagga ccttctggag ggcgacccgt acctgaagca 240

gaggctgcgc atccgtgact cgtacaccac ggcgctgaac gtttgccagg cctacacgct 300

gaagcgcatc agggaccctg gcttccaggt gaagccgcgg ccccacctgt cgaaggacat 360

catggacatg ggcaagccgg cgtccgagct cgtgaagctg aacaccacca gcgagtacgc 420

cccggggc 428

<210> 41615
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B1

<400> 41615

ggcaatcgag agtgagaacc taaactatgt gggatgtaat aactttatga ttatgttggg 60

tcaaaacacc tggcctgtaa tagataatta ggtgaacttg ttcttattat gctactactc 120

gtttcattat gccgtgaatc ctctttatgc taagctttat gtatattgtt actgtatcat 180

ttgggatcta ctattcaaaa aataataaaa agggcaaaaa agatcaataa aatggatatc 240

aagctgagtg tccatga 257

<210> 41616
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B10

<400> 41616

acctacatga ggaaggcggc ggcgatggtg actcatcgga cccggcaggg ggttacgtgc 60

acgcggcggc gctggtgagc ccgtccatcc tctacaccaa ggacgtgctc atcgggcaga 120

gcccgacccc ggcgttcgac agcccgccgc cggagacggt ggccaacaag gcaggcgggg 180

ggccctgttg gagagagctc ctggagccgg gtgtcaggcg cgcgctcttc tgtggcgtca 240

tgattcagat cctgcagcag ttgtctggca tcaatggtgt gatgtactac acgccccaga 300

tccttgacca ggccggtgtg agcgt 325

<210> 41617
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B11

<400> 41617

aagacaaaat atgcggttcc tgtaaactga gaagttcgtg caagtttgtg aaccaggaag 60

tggccaggca taatagagtg attctatcag atacgatgag aattatctac ttgtttgtac 120

tggacgcttg cccacaagag ctcgagatta ccggttaatt aaa 163

<210> 41618
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B2

<400> 41618

cggacgcgtg ggctgctcgc caaacaaccc tgacggtggc atccgacatg ccgtcgtcaa 60

gtccaaatcc agcaaggcga tctatgactt cgcctactac tggccgcagt acacgcccat 120

caccgaggcg gctgcccatg atgtcatgct gttcaccttc tccaaatgct ccggccatgc 180

cggtactagg ctggggtggg cactggtgaa ggacactgag gtggccaaga agatgaccaa 240

gttcatggag ctcaccacga ttggcgtgtc caaggactct cagcttcgtg ccgctaagat 300

tcttggggcg atctgtaacg gctatgagca gctgccatcc cccgcgggcc aaacaagaag 360

ccacctcttc cattttgctc gggagaaaat ggcggcac 398

<210> 41619
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B3

<400> 41619

cggacgcgtg ggagagaatc tttcaaagat ggcgtccaag aagatggtcc tcgccgtggc 60

ggcactgctg ctagtcacgc tcgcactgca ggtcgcccct cctgcgatcg ccatggactg 120

caaggccggg tgtgccgaga tcaagaactc cccactcggc ataagcatcg aggagtgtct 180

gaagaggtgc gaggggatcg ccactgagca gggacctagg gacccttaca aggataacaa 240

acttgatatc ccataaacac ttatgacttg ctgatatatt tgtgcctatc caatcatttg 300

tgatagatca atgcatcttt gtgttaaaaa tagatagatc aatacatctg tatatatgct 360

cactccgttc ttttttattt gtcggcgttt agttcagaaa tgaactagcg gacgacaaat 420

attagag 427

<210> 41620
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B4

<400> 41620

atcgccaaag acgtcatccc ggcgaactgt agacccgatg ccgtctacac ttgcaacggg 60

caattctact agactttgaa ttcccttcga ttcatccggc acagcgggct atggaccttc 120

agcagcaagc taattaagtt ggcagcatgc accgctaacc ttatatacta ctgagacttc 180

caaattctag tatatgtaat ccttttgttc gggttcatga tcgaattcca aagagtggaa 240

aacaagcaaa aggttaaata tacatgccat ttttggaggc atttttttca tgagggcatg 300

tttcgatata tggaccacta aatatacata tcatttactt tcct 344

<210> 41621
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B5

<400> 41621

gcgattcatt ccgcgcgacg caaaacccta gcccatccac cgatccttgt catggcggcc 60

accaccagcc aggcgagcct cctcctgcag aagcagctca gagatctcgc caagcacccg 120

gtggatgggt tctcggctgg gctggtcgac gatagtaacg tattcgagtg gcaggtcacc 180

atcatcggcc cgcccgatac cctatatgat ggagggtact tcaatgcaat aatgagcttc 240

ccagaaaatt acccaaacag cccgccatca gtcagattta cctctgaaat gtggcatcca 300

aatgtttatt cagatgggct ggtgtgtatc tctattcttc atccacctgg tgaagatcca 360

agtggttatg agctcgcaag tgagcgttgg acacctgtgc atacagttga aagcatagtt 420

ctgagc 426

<210> 41622
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-019-Q1-K1-B6

<400> 41622

atgaattcat gcagaagcta ccgtccttcg acgaggactg ggccaggcaa cgcagtgatg 60

ctgaggctgc aggcgaagtc ctgcgttacg ttggagcgtt ggatgcggtg aacaggagcg 120

gacaggtgga gctacgcagg tacaggaggg accacccgtt cgcgcagctc tccggctccg 180

acaacatcat cgccttcacc acgtccaggt acaaggagca gccgctgatc gtgcggggtc 240

cgggtgccgg cgcggaggtg acagccggtg gcgtcttctg cgacattctg cggctggcgt 300

cttacctcgg tgctccttct tgagcttcga gctacaggtg ccagtttcag gaagcagtcg 360

gagacacact gccatgcatg atgcctnccc tacgtgtttg ggctatgctc acatgttgta 420

at 422

<210> 41623
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-019-Q1-K1-B7

<400> 41623

gttcctgata aatctcaagc aagtgttcct actgtgaggg atggtggtat cttcaagttc 60

cttggtggtc caaaaccagg agatgttgag tacaacttgt cttctgctat tcactgctat 120

ggtgcagcca agggagcatt gttcgcattt cctgtgcatt cagtagaaac ttccatggtt 180

cttaagaaaa gaggctgggg atttaatgaa ctgggccgtt gtagacttga gaatagaaat 240

ctggttagcg ccgagattgc ttttgcggat gctattaaag catttgaaga ggtgtttgac 300

cacacaaatg ttatactgat caactgtaac ttangtcatg gtaggagagc tttagcagag 360

gaatgtgtat ccaggattga tgaatttcag aaacatgatc ttcctgaagg cacatatatg 420

ca 422

<210> 41624
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B9

<400> 41624

ccaccaccgc ccatggaaga agaactggtg tagccgcaac tcgccgccat gggactcgtc 60

gggtccaggg ccgccaagac accacgctcg gacttcgtat ctgaactgca ctcggttaag 120

gttctacgat cccacctggc tggcgtactt ctccctcgac cgatcccctc aagcagcatg 180

ctgtcgttct ccccaacacc atcgcgctca ccttgtcatg gtctcacgct ccctggttga 240

cgcctcctgc cgcatctccc tggagtgtgc gcaccgccta tgctggtcag gttgtgagtc 300

cccgcgtcga agcacacgtc ctctccgctc cacgtccaca gtccagcggt gcttggccac 360

gttctcttcc tgctgatgct cgcgcacgac ggatgttcga cggtttgcgc agccaagtct 420

atgtgccatc at 432

<210> 41625
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C1

<400> 41625

gacatttccg agttggaatg acctgtttga catgtacaac ctgacagaag caaaaaatgc 60

ttctgcagta gttgatctcc agcgtctaga gatacttgcc ggaagctact tctgtgttgc 120

tggagcgctc attggcatca taaatcctgg gaggatgact ttgtttggta ccctttgat 180

tatctggggt atggtgaaag aagcactatt tgggaagcca gtgaacagtg atctgactca 240

atcaactcat gtctacccaa ccattttgat tgcacttatc tgtgcattca tgtcgataac 300

ttacaacgta aagaagacag caagaagtag tactcctgtt tctatcgcta agccactgat 360

aagttctgcc aagtcaaaac tgaagtagac ttacaagttt aatccttgta actcttttga 420

aatatttatt 430

<210> 41626
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C10

<400> 41626

gcgtgagatc gaggagaaga aggcaagctt gcagagaaag agagagagag agagagatgg 60

atgaggagta cgacgtgatc gtgttgggga cggggctcaa ggagtgcatc atcagcggcc 120

tcctctccgt cgatggcctc aaggtcctta acatggacag gaatgactac tacggaggag 180

aatcttcgtc cctgaatcta accaagctct ggaacaggtt caagggcaac gacagccttc 240

ccgagcacct gggcgtcagc aaagagtaca acgtcgacat ggtgcccaag ttcatgatgg 300

c 301

<210> 41627
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C11

<400> 41627

tcgaggtttg ctggctacct tcctcctcat cttattaagt gcggagaatg aatatttagc 60

caggggaggt ttaaaccatg aatgggacgt tactgattgt gaatgctttg actgcatcct 120

gtagcaacct gatagctctt ggccattagg cgccataccc atcatatggc aatacatact 180

gatttgagtt ccaaaatgca cttgaaaaac ttacaagcta catattctac aagagctatc 240

atatgataga ttatgatcta ccacaacgaa tcattgcata cttctataaa g 291

<210> 41628
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C12

<400> 41628

ctccggcgag cacaacgacc acattgattc acgaagcagc caaagaagag acgggtgcgc 60

gtgccaaggc accagctgct gcagccaccg aggggcctgc tgcgggagcg cccatgacat 120

ggccggatgg cggacctgag ttcgtcaaga tggtcatcaa gaacccccttc tttaaaagcg 180

caccttcatc tggtagcgaa gacggcctac ccattgaccc cactccagaa ggcagcatga 240

actaaattaa ataccaatta cgagaccgac cagatatgca tggagcatgc aagaatgttg 300

tcgaacgaat atatgctatg aatggttaca tgtactggct acatttagtt caacttaaat 360

tctct 365

<210> 41629
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C2

<400> 41629

attgttggac gcgttcccct cctgcacgca acctcatctc gtcctccaga tccaggatgg 60

ccgtcctcct tgagaccttg cctccccgag tgctctcggt gagctacttt gtttcgattt 120

atcaggaaat ccgtttgctt catgttgtgc aggctcatat ctgattgctg gattcggcaa 180

acccgcgttg gatcctgtat cgatctggag aaatcgcgaa gtcgtcgtcg ttcggttcgg 240

agcggatctg aggcgacgat agatggaggc ggcggcatct ctcggtctgc agtcctgctc 300

cacctcgatg gatgatgtct ctgcgctgat aattattgga tcaatttcga taattattag 360

tagatctatg agatatgccg cctggaagag gcgaagtaag ctgcagcatg taaaaaagag 420

aaaaaaga 428

<210> 41630
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A9

<400> 41630

ccgacgcaat cgcctccaac gcctgttttt agtcagctca ccatcaacac ctatggggg 60

gcaccaccgg ctccagtgag ctcaccacct tctatggcgc aatgacctcc accacctgct 120

ccagtcagct cactatcagc acctgagaca tcacctcctt cagcgcctcc agttagctca 180

gcaccacctg ctgtgaaata ctcttgacca cctactacag gcaactaacc gtcaccacct 240

gataaagtac ctcctgcact agcttcaatg gttttaccat cgtgtaccat gaaataccc 299

<210> 41631
<211> 397
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C3

<400> 41631

ctctaatcaa ttcttagagt tgtatactca ttggcctaga tgctcatttg aaactgccag 60

ctataactta caatatccaa tacatgtaag aaaaggcaag tattggatat tgtaagttat 120

agctggcagt ttcaaatact tgccttttct tacatgtatt tttcttacag gtcttcattg 180

aagtagccct tctaactgat gtgtcactct tgatcaacaa gattttgaat gcttttgtaa 240

cttgtttcaa accatgcttg ttcctttgat agccattagt caagatgtat ccttaatggg 300

agtgaataga cccactcatc ttataaccta caaactcttt tggagcagag cgctccagta 360

ttatcgcgga gctgaagcac ttgagtgata atatttt 397

<210> 41632
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H4

<400> 41632

cggtccctcc ctcggtccct cccggtctcg cagttcctcc ccgtcgtctt ccaccgcaga 60

tcgccgaagc aagcaggcga gctcgggacc agatccactg cgggcagctg gagcggaagg 120

gccatgggga cgccgccgcc tttccaggag tccggccact gcgacgtctg ccgctgcacc 180

ttcaacacct tccgccgccg tcatcactgc cgcagctgcg gacggacgct ctgtcacgag 240

cattcttcgt actacatggc tctcccgcag tatgggatat atacagacgt cagagtctgc 300

tacggttgct tcaacaaatc cttcagccaa ggacacgctg ataatccggt gtcagctggt 360

agcatttctg gagcagctga ctcttttca gggctgagtt tgggtaagga gga 413

<210> 41633
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-018-Q1-K1-H6

<400> 41633

ggcggaggcg acgacggacg ccggcgggtg gtacaggatg gagatcagcg gtgaccacca 60

ggacgagatc tgcgaggtgc tgctgctcaa gagccccgag gcggactgcg ccgagatcga 120

gcgcacccgc gaccgctgcc gcgtcccgct cacccgcaac gacggcatca ggcagagcgg 180

catccgatac gccaacccca tcgccttctt ccgcaaggag cctctcagca actgtggcga 240

gctccttcgc gcttacgacc tcttcaacga gacgtccgag aattcctaag cgtcattttg 300

ttnttctttt ttaatttcct ctgccatagc acatttgttc gactgatcga cgttatatta 360

gcagacgtgc agctatccta aaaataaaaa taattttcat ctccaatgtt ttagtagcta 420

ccatattaat atatatta 438

<210> 41634
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H7

<400> 41634

gatacggcct ccattattta taaagaggat atagaataaa aaaaagagac gtccttggcg 60

tggtgtcctc gtcctcgtgc ccatctctgt cccaatcaaa ctgatcgatc cgtcgcctgc 120

agggccacag cagccgcggc gaggtcgtcc gtcggattcg gaagctcagt tattactgaa 180

aagataatac agtacctatg gcttctctgg acgccgtgcg aggagacctc gccctgctga 240

ttctgtacct gaacaaggcc gaggcgcggg acaagatctg ccgagcgatc cagtacgggt 300

ccaagttcat cagcaacggc gag 323

<210> 41635
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H8

<400> 41635

gtgagagact gagggcctat tctttccttc tcaaactcaa attcttcctg gaatgcagga 60

aagccctgcc tcccctgtac tgattctgaa agtggacttc catctgcacg tcggttgatc 120

tattctactt tgctgagttg gactacatta cctccatgtc gagactgcga gctctgtggc 180

aagctttctt taacgccaca aagagagctc tcgtatggac ttcagatcat ctaattccga 240

caagtgaaag atgtatcttc aatttcaaca cagaagatga gctgacaaag cggcatttgt 300

actcagattc 310

<210> 41636
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A1

<400> 41636

ccaagacgcg tgcagtcttt ttgagcctat ctacgatgag accgatgggg ctgatgggga 60

tgtctccgtg gaggtgtctc ctaggttggc aaatgacact caaggaactg ttgaggcggc 120

aaagtggtta cacaaagtgg tcaaccgccc caatgtctac ataaagatcc ctgctaccgc 180

cgaatgtgtt ccttccatcc gggaagttat cgctaatggc attagcgtca acgtcacgct 240

tattttctct attgcgacat acgaggctgt gattgatgct taccttgatg ggctagaggc 300

tttcgggctt gagcgactta tctcgagtta ccagtgtcgc atccttcttt 350

<210> 41637
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A2

<400> 41637

gaccatagag gtcagcatgg gctcgacgca tggtcaggtg gaacataggc ataagattgc 60

caagatgaaa gacgggtaca gcaatgcgcc tgacttggag gacctgttct taatgctcaa 120

tgtgggttca gcttgcactt ggacactgta caccagggtc cggatacagt acgaagctca 180

catccgctat gactccacat gtagccgata acagtatctg gatcatgata gccgctccga 240

cttccatgac taccataact acgtgatgaa tacaaagata tggtgatact gctaagcatg 300

aggacacatg gactggccag tccac 325

<210> 41638
<211> 287

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A3

<400> 41638

agatcaccca catgtacaaa gggaagaccg tcatgaccga ggacgagcgc tacgaatcgc 60

ttcggcattg caagtgggtc gacgaggtca taccagacgc tccatgggtg atcaaccagg 120

agttcatcga caagcacaac atcgactacg tcgctcacga cgcgctccca tatgctgaca 180

cgagtggagc tgccaacgat gtctacgaat tcgtgaaatc cattgggaag ttcaaggaga 240

cgaagcgcac cgagggcatc tcgacgtcgg acatcatcat gaggatc 287

<210> 41639
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A4

<400> 41639

ccgccaatgg tgcctccaag gtcaccgtca aggacgtcac cttcaagaac atcaccggcg 60

acctcctcca ccccggaggc cgtcaacctg ctctgctctg ccaagatccc atgcaccggc 120

gtcaccatgg acgacgtcaa catcaagtac agtggcacca acaacaagac catggccgta 180

tgcaagaacg ctaagggcag cgccaagggt tgcctcaagg agctcgcatg cttctagaac 240

caccatcgac ccatctctct agttatacaa tgtgtttggt tgttggatgc tgagagattg 300

gttctcagct cagatgcaag ctgcgcctag cctgtgtagg tttgtgctgg tacattgaga 360

gctcttattt atttgctttg attgcaatta accaggatga ccatagcccc ttgtt 415

<210> 41640
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A5

<400> 41640

aatatctccc ctcccttccc tcttctggtc tccgccccgc tccttgcctc cgagcccgaa 60

ttcctccttc ggatctcgca ttcagcgcag cgcaggtgtg aaggaagggg gacgcggagg 120

aagatggggc tcgcgttcgg gaagctcttc agccggctct tcgccaagaa ggagatgcgg 180

atcctcatgg tcggcctcga cgccgccggt aaaaccacca tcctctacaa gctcaagctc 240

ggcgagatcg tcaccaccat ccccaccatc ggtttcaatg ttgaaactgt tgagtacaag 300

aacattagct tcactgtctg gcatgtcggc ggtcaggaca agatcagacc tcttggag 358

<210> 41641
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A6

<400> 41641

acagctggaa tgcatgtcga cgacgattgt ttcgagtttc gacttccaat aagagtaaca 60

acaaagcaaa ggccttcctc ccggcgtatt tgctttggct cttctcctcc acgccataag 120

atatctagca attggtcact cgccttaatt agttcgcttt gcttttgagg ttgattcgac 180

cattttgctg taacgtgaat tgcatgcatg gacatgcaac gctccaatgg cctttggaat 240

gtggaatttt tttccccatt ttatgtattt ttcctataaa aaatgaactg gttcttatat 300

aattcctctc agatccctgc tgttcaaatg atatgaaagc agatactata ttctgtgctg 360

ataaaaaaaa aagcgtggaa tta 383

<210> 41642
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A7

<400> 41642

caacatatat cttagatagt ttaattttgt ataatggatc caagatatat caccctatgc 60

atcttcctag tacttgtctt acatggagat acaactttgg cagaaacttg cagacaattt 120

gttaaatggg atccattctg ctttagtgca atgtgcaagg caagttgttt tatagaggga 180

aaatcctccg atggttccta tgtaaagggg cacagatgtg aatcaaatgg atatcatgct 240

gtgtgtgttt gctttctgtg taaaaattag gtatctaatg acatgcgaat ctatcttctt 300

ttgatcctct ccgacatcta ggagtgttgt ctaaataatt atatggtaaa atagttaact 360

agtatgtata ctattagagt tatgtagcac tagttaacta gtcggtattt cttca 415

<210> 41643
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H2

<400> 41643

atttcccagg gatgacccca agaagccttg ccatctcact gccttccttg gctacaaggc 60

tggcatgact cacattgtcc gtgaggttga gaagccagga tccaaactcc ataagaagga 120

aacttgtgag gctgttacca tcattgaaac ccctcctctt gtcattgttg ggctcgtggc 180

atatgtgaag actcctcgtg gcctccgcac actcaactct gtttgggccc aacatcttag 240

cgaagaagtg aggagaaggt tctacaagaa ctggtgcaag agcaagaaga aggctttcac 300

aaagtatgct ctcaaatatg aaaatgatgc tggcaagaaa gaaattcagc tgcagcttga 360

gaagatgaag aaatatgctt ctgttatccg tgtcattgct catacccaga 410

<210> 41644
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F6

<400> 41644

gtgaccctgt cacagtgaac atagaagaga agctcaatgt tgttgttaaa agagatggtg 60

gtattagtaa ctttgatgtt caaggaacac ttgctcttca ggttcttaat gatactgatg 120

ggttcatcca tttgcagatt gaaagccaag atatgcctgg gcttagcttc aaaacacacc 180

caaatatcaa taaggatttg tttaacagtc agcaaatttt gggagcaaaa gatccaaaca 240

ggccctttcc gagtggtcaa aatgaaactc ctctggtgaa atggagaatc caggggatgg 300

atgagtcgtc tttacctctg tcagtcaatt gctggccgtc agtatctgga aatgaaacct 360

atgtgaacat tgaatatgaa gcttctgaga tgtttgatct gcacaacgtt gtcatatcta 420

ta 422

<210> 41645
<211> 186
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F7

<400> 41645

catgcacttt caccattcac atatttcatt tacaccaatc atcttcacaa aagagcgcat 60

gatcctataa actttgccct ggaaaacact cttattatta aacctcttac tcatactcat 120

agcactatct actttcacca ataaatccaa cacatcccat ttctaacctt ctcaacacac 180

tcaaat 186

<210> 41646
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F8

<400> 41646

ggaagatcgg tgtcctgaag cccgttttca cgatctggtc tggttgctga gaggtatatt 60

gatatcaaat acaggtggtt ttatgatatc aatggggcat tttgaagctg aaaactctgc 120

taacctactt acctgcaact aacaaaaggt cacctatata tcaggaaaaa agaaagcaaa 180

gcctgtagtg tgtcgctaat ctataccatg gagcaaaagg acattgcagt atgcctgcca 240

cttaattgtg ctgcgtataa actatccaac gtattaggtc gtgctgtaaa caatgtagaa 300

ctgtacctgc tggacggtta ccatgtatat aaagatgaag tgtttaactg atgtgaagat 360

tgatggatat agtacgtcct ctctttgcca taagcgtgtt gcaaatagtg cttttgcaat 420

atatcccaat ggaca 435

<210> 41647
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F9

<400> 41647

aacagggcca acagagatct tgttcatatt tcattacttt caatgcagaa caagttctgg 60

gcgtgggtat ttgtaccatt gcgacatcac actgctagcc atgttctgta tcctgttgtg 120

tggtaactgg gaaacattaa atattgacat accgttttga tttttt 166

<210> 41648
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G1

<400> 41648

cccacgcgtc cgcccacgcg tccgcccatt cgttcggatg gcggcgtcat cgtcaaccgg 60

cacgtaaacc aactcgatcg atcgcgtgcg actgcgagcc gtccgtccgt catggcggac 120

gtgctggtgg gctccgagcg ccgtgtcctc atcagcggct acgggtacgg actttccccg 180

cagcccccgc ccccgccgtc gccggcagag agccagctgc tcggtcgcct cgatcacatc 240

gatctacggc tgcggcagct ggaggagcag catcagcgcc gtccgttgca cgccgacccg 300

gtcccggtca cggccctacg agcgccggcg gcgcaggacc agcaca 346

<210> 41649
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G11

<400> 41649

gttaatccaa tagaaaaagg acatgagaat cacatgtcca aatgcaaatc taaaaaggaa 60

acaatggcag aagatgattg tacaaacatg cctagtgcaa caaatgctga aactgctgat 120

ttgattagct caatagccag aaacacagaa ggccaacaag cagtacaagc cgttgacgca 180

ccagatggcc cttccaaaat ggctaatgga aatgataaga atcatgattc tcatatcgaa 240

gtgacacccc atgagttggg tttgaagaga tcgagaacaa atggagctac agcgggaaat 300

ccatgatgag cgaattattc tgaaaggatc aaatcagtca agccttaaca 350

<210> 41650
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G12

<400> 41650

caaagacgag tttaggaaag tgatgacact gatgcgatcc tataatagac aaggagctgc 60

ccatagggat ggtttacgct ttggacgcaa ggttggtcag ccagtggaaa atggtggact 120

ggtcgaatac ttctttggca aggatgggaa tgaacatcta cactatgata agttctctag 180

ttttttgaag aaattgcatg atgagattgt ccgcttggag tttagtcact acgatgtgaa 240

atcatccaac acaatacctg ttaaggactt tgcgttatcc atggttgctt ctgctgatat 300

gatttacata gacaagttac tggatagagt tgaggatttg gacgacaatc ttgacctcaa 360

ggatctgcgt a 371

<210> 41651
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G2

<400> 41651

caaaaaatgg aactttggga agaaaatctc agtactgccg tgagcctcga agtgttggga 60

ataactgaga agttttcagt tgctgcaggc gctcgaagca tcactactga ttacgcgaag 120

ctagattgtg taacatcaat cttaatgggt cttttatcta ggaaccaatc cttggctttt 180

tggaaggctt tccttcctgt ggtctacaat atatttaatg ttcatggtgc aacactaatg 240

gcaagggaga atgaccgctt cttgaagcaa attgcttttc atcttttgcg gcttgctgtt 300

ttccgaaacg attcgattag aaaaagagct gttgttgggc tgcagattct tgttaggaac 360

tcattcaact atttcaaaaa cactacaagg ttaagggtca tgttgacaat tactttgtcc 420

gagttgatgt ccgacgtgc 439

<210> 41652
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G4

<400> 41652

cttgggtatg aggattgtct gacaactcaa cttcacaggc ccttgcaagg gcgacgtgac 60

catccaggtg gatggcaatc tgctggcgac cacggaccta agccagtaca aggaccatgg 120

taattggatc gagattctac gcgtggataa cctggtcatc accggcaagg gaaaccttga 180

cgggcagggc ccagctgtgt ggagcaagaa ctcctgcacc aagaagtacg actgcaagat 240

ccttcccaac tcgctggtga tggacttcgt gaacaacggg gaggtgtccg gggtcacgct 300

gctcaactcc aagttcttcc acatgaacat gtaccggtgc aaggacatgc tgatcaagga 360

cgtgaccgtg acggcgcccg gggacagccc caacacggat ggcattcaca tgggc 415

<210> 41653
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G5

<400> 41653

tgttaatgga gggcagatac atggtcttaa aaaccttggt tgttcttcgg tacctgatgc 60

tcagccatca ggttgcccat ctgagtctgt tattagtagg aggaggtttg agttcatgag 120

aaagagggcc tttgaccagg aaagctcttc cagatcagtg aacttaagct taggtcattc 180

aactcctaca gatattcgca gaatcagaat gaatgaacaa tcactttgtc aacaaatacc 240

acgaagcagc agcagaagcc atcaggaatc ggcaggttca gttaggacaa gacgaccttc 300

tcctcatgcc actaggatga gtgttcctga tggaagagca gatggcgtgc tttctctgca 360

cgagt 365

<210> 41654
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G6

<400> 41654

ctttgttctc cattacaaag atatattatt gaagtgttaa gccttatatg ctgagggaga 60

gctgataaat ttcagttgat gcaactagct aactagatgc aatactgatt acacgtatac 120

tggatcgagg cacatcaacc ttaatgggcc tcttatgtac gaaccaatgc ttgacttatt 180

ggaacgctat ggttcctgtg gtctaaacta tatttaatgg aaatcgtgca acactcatag 240

ctaaggagaa tgaccgctta ttgaagcata ttgattttca tcttttgcga ataggctgtt 300

tccgaaacga tttgattaga aaaagaactg ttgatgggct acagattctt cgtatgaact 360

cattcaacta ttgcaaaaac actacaaggt 390

<210> 41655
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G7

<400> 41655

ggcggccgag gtcaccaagg cctgcagcgt cacctgcgcc aaggagaaga acccgcgcct 60

cagcgagaac tgcaagaggt cctgcacccc tcctccttct tgaagcgaag ccccttgaaa 120

tgaatgaacc atgcatgcat gcatgtatgc atgcgccggg gtgacgtggc gttcagctca 180

ggcgctgagc gagtctatac gtacgtcgtc accggctggc cacgcatgcg ataaccatct 240

gatatggacg gaactatata ttgtattcct attaatctgg cattttctaa gctaattgtt 300

ttttttccaa atataccgtc gatggaactc caaatgtaat gtcacgcaaa tgtgtgtttt 360

tcatcgattg aatggattat aataaaaagc atgctggcag gtactact 408

<210> 41656
<211> 276
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-018-Q1-K1-G8

<400> 41656

gaaacaacaa gactgacagc gacgatgatg ccacagctgc gtagcctcgt cgcgctgggc 60

ctcgtggcca cggccatagc cgccgctccc ggcgttgggt ttgtcgtcac cggccgcatc 120

tactgcgaca actgccgcgc cgggttcgag acaaacgtgt cccacgccat ccaaggcgcg 180

acggtggaga tggagtgccg ncacttcgag tcgcagcaag tccacgacaa ggcggaagcg 240

acgacgggcc ccggcggctg gtacaagatg gagatc 276

<210> 41657
<211> 58
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G9

<400> 41657

gtggactgta gagagcacac gatttacatg tacagaaccg ttgcttcctg attgcttt 58

<210> 41658
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H1

<400> 41658

actgaacagc agtccgagac gccatgaacg tggaggagga ggtcgggagg ctcaaggagg 60

agatccatag gctcggccag cagcagcccg atggctctta caaggtcaag tttggcgtcc 120

tcttcaacga cgaccggtgt gcaaatatct ttgaagcact agttggcacc ttgagggccg 180

ccaagaagag gaagatcttg acctacgaag gcgagctgct tctgcaaggt gtccatgaca 240

acgtggagat aaccctgttg cccccacctg cagttgctgc cgcttgaagc gaagagcacc 300

accaagttct cgattccata caactcgtat gct 333

<210> 41659
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H10

<400> 41659

gatgcggtaa aagcgaaaga agaatccgat ccgcttctcc acgccgaacc cggtaaggcc 60

gccgccgctt ctcgaatggc ctcaacctcc tcctcctcgc ctcagccgcc gccggcggcg 120

gcggcagcgt cgcccggggc agcttcctcg cccgaggatc gccgcgcagg tggaggccgc 180

ggcggcccgc ccccggtccc gccctatgtc aaggcggcgg cggggtccct gggcggcgtc 240

atggaggcgt gctgcctgca gccgatcgac gtcgtcaaga cgcggctgca gctcgaccgc 300

acggtggcct accggggcat cgcgcactgc ggcgccaccg tggcccgcgc cgagggcgtg 360

cgcgcgctct 370

<210> 41660
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F5

<400> 41660

aaaaaaaaaa aaaaataaaa aaaatttatt ataaaaaaaa aaaaaaaaaa ataaaaaagc 60

aaggaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaataa aaaaaaaaca 120

acaaaaaaaa cgggcagtcc caaaacattt cacccaactt taacaaagaa ttcttttaac 180

tctaaactta catattattg aaaaccaaat taaattcatt cccataacaa aaataacaga 240

tatacataca aaaactctaa caaaccccac tttaataaca ttgactcatt caggaacatt 300

cccattttta 310

<210> 41661
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H12

<400> 41661

cgaaccttct aataagtggg ccactcttcc tcacatcgcc tccctcgacg atggccggcg 60

ccaccgccgt cgccgccacg gcgtcggctt cgcgtcttct ccggaggtct atatcctctg 120

cattcctcgc gaggcgcgcg gtccctaaca ttccgggtac aactctctgg tattccttct 180

tcgcattccg cagacttaaa ccaacgccgg ccctgtcttc gcctgacacc ttcggcaatg 240

attgaagccg ccggattagg tggga 265

<210> 41662
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E1

<400> 41662

ctcgcgaacc ccgacaatgg ccgcaaccgc ggtgtcggtc gacgagaagc tcgacaagct 60

tcgcgccgag gtcgccaaac tcagccagat cagcgagaac gagaaggccg ggttcatcag 120

cctcgtgtca cgctacctca gtggggaggc ggagcagatc gagtggagca agatccagac 180

cccgaccgat gaggtagtgg tgccgtacga taccctcacg tcgcctcctg aagatctcga 240

ggagacgaag aagctgctgg acaagctcgt tgtgctcaag ctcaacggag ggctcgggac 300

gaccatgggc tgcaccggac ccaagtctgt cattgaagtc cgcaatgggt tcacattc 358

<210> 41663
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E10

<400> 41663

cagcgagcga ccgcaccggc acggcgctta tctatccatc ggcattctct agcccaggcg 60

aaaggaaccc tagccatgag cgccgcctcc aagaagctct tccaggccgc caggtccctc 120

gtcctctccg cttctaaccg ctccgtcctc gccgtcaatg gccgtaccga cgcgctcgcc 180

acgctcacca actttggcag gaagaccctt cccaccgact acttatccta ccacaagcag 240

ggatcccacc atgccgcgtc ggcgtggtga gccatcgccg tagcagtccc agctgcagtt 300

tacatgctcc 310

<210> 41664
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E11

<400> 41664

cggacgcgtg ggttcggcgt ccgcatcaag gcgtacgagg acgccgcctc cgtgctcacc 60

gtctccaaga tccactacga gaatatcaag atggaggact cagccaaccc catcttcatc 120

gacatgaagt actgccccaa caagttgtgt actgccaacg gcgcctccaa ggtcaccgtc 180

aaggatgtca ccttcaagaa catcaccggc acctcctcca ccccggaggc cgttagcctg 240

ctctgcactg ccaaggtccc atgcaccggc gtcaccatgg atgacgtcaa cgtcgagtat 300

agcggcacca acaacaagac catggctata tgcacgaacg ccaagggcag caccaagggt 360

tgcctcaagg agcttgcatg cttctagacc cttcatcgac tgacccatct ctctagttat 420

aatttttctc tc 432

<210> 41665
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E12

<400> 41665

gaaaggctgg gcgactacct gctcgaacag gtgatgtaac aacaacccct taccctggaa 60

tgcatgttga tgatgttgct ggttccaact tcgttttcag taataataac aacaaagcga 120

agaccctcct acctacccta tttgcttgag cggctcttgt ccgcgccaca agataccaat 180

tgttgcgctg ggaatattca gttacgatga cccgctttag ttcagctttt tttttggggg 240

ggttggttcc atcatttggc tgtagcgtga atcgcatgga caacagactc caattactaa 300

gcaaatattt ttcttctgc 319

<210> 41666
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E2

<400> 41666

cccagaagaa gcaagagaag gaagaggagg aggaaaagct aattctgcag aaggctaagg 60

agttggatgc ctttgatcag cagaatcatg gggctgttcc ccagtaccat gatcgcagtg 120

gttcccaagg caagaatggg tttcatggag cgaacagtgt gaaggtcact tcttttgaag 180

aggaagccct ccgtaacatg aaggcattct ggcttccttc agctactcct gaagctacgg 240

tcaaggtaga tgcaccctcc gccgacactg tctgccctga ggggcaggag aagctcaagt 300

tgaaatcgct cttccctatc tcatttatgg aagaaactgc tgatccgaag aggaagaagg 360

caatggaaaa gagctatatg tgccctagtt gcaaatccac tctcacaaat acaatgtccc 420

tcgtggcggt c 431

<210> 41667
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E8

<400> 41667

gacccattcg ttcgaacacc catcccacgt aaccaagatt ctttcctagc tgaccttcca 60

acaactgtgg gctgctgtgt aaaaatacct aaccctaacg atggtttatt atgatgtaca 120

atcatcgaaa gatataccac ctggagatcc caacaagcgt gcatttgctt actatgtcct 180

gagtggtggt aggttcatat atgcatcact gttgcgtctc ctctcattga agattgtcct 240

tagcatgtta tcaagtaatg acattctt 268

<210> 41668
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F10

<400> 41668

aaatcgagtc cctgaacaag aagtatggat gtaatgtccc tttacttctg aggaactgtt 60

tgaataccca tgatgaccca cagaagatcg ttgagaagtt ttccaactcc aacattgaaa 120

ttaatccttt caatcagagc cagtatcctc gaattgttac cgaggacttt tggccacttc 180

caagcaaagg gaaatctgga aaggatggct ggtatcctcc aggccatggt gatgtgttcc 240

cctctttgaa taacagtgga aaactcgaca tcttatgggc tcagggcaag gagtatgtct 300

tcgttgctaa ctcagacaac tggggtgcta tagtcgacat caagatcctg aac 353

<210> 41669
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F11

<400> 41669

gcgagtacca ggcggagcac gcggcgcatt gcgtcaagga caccgccgca gccgcggccg 60

acagtgcgca gctgcagcag caccgcccca ccggcaccgt tgagcaggtg gcgcagacgg 120

gccagggcgt ggcggcaggc gtcaaggaca cggtggcggg cgcggcggtt ggcgtcacga 180

acacggtggc gggcgtggcg gcgggcgtca cgaacacggt cacgggcgcc gtggcgggcg 240

tcacgaacac ggtgaccggc gcggcggctg gtgtcaagga caccgtgacc ggcgggcact 300

gatcgacgac ccaagaatgc ttcatgca 328

<210> 41670
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-018-Q1-K1-F2

<400> 41670

ctgaaacact tgtcccagga aaccaagatg ctggcctagc tgacctccca gcaactgtgg 60

ctgctgtgaa gaatcctaac cctaaggtgg tttatgatga gtacaatcat gaaagatatc 120

ctcctggaga tcccagcaag cgtgcatttg cttactttgt cctgagtggt gggaggttca 180

tatatgcatc actgttgcgt ctcctcgtat tgaagtttgt cctgagcatg tcagcaagta 240

aggacgtgct tgcccttgct tcactcgagg tggacctctc cagcattgag ccaaggacca 300

cggtgactgt gaaatggcgt ggaaagccag tcttcatcag acgccggacg gacgacgaca 360

tcaagcttgc caacagtgtg gatgtggcat ccctgcgcca cccagagcag gatgcanagc 420

gtgtgaagaa t 431

<210> 41671
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D9

<400> 41671

cggacgcgtg ggcgcgaagg cacctagcag ccgccactcg ccgaactgag gaacacgcct 60

ggcgacggga tacagcagca gcgcgcccct ctatccccga cgcgacggcg ccctgcagct 120

gcagataaac ctgttccaat gggcaaacaa aaagagggtg tggacaaaag aactgctagg 180

aagatgatcc gatctacgga aggctgtgca aagagcatta ctttcgagag gaacaacaaa 240

tcagacgatg tgcagcttca cgatctgccg aatgacatcc tacgtagcat actatcacgg 300

ttgacattca gagaatcctc acagatgggc cttgcttctc at 342

<210> 41672
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F3

<400> 41672

attgcaccga cggcgaccgc ccccaatttt cttctaaccc ttcggcttca attaagtcgg 60

cggggtccca ggttccttgg cctgggtaac cattatttta ttaagccttg tgcccaaatt 120

ggacgcaagg acttccgggc ggaattcctt gagccgagcc aatttggata ccggttggcc 180

acatagatat ccgaggacac cacacccaag gggccgagcc aaagtgatac ggagacaaat 240

ctcccgccgg tgtt 254

<210> 41673
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F4

<400> 41673

cccacacgtc cgcgctggag aatgccttcg cctcctacgg cgagatcctc gactccaagg 60

tcatcaccga ccgggagacg gggaggtctc gcggcttcgg cttcgttacc ttctcctccg 120

agaactccat gctcgacgct atcgagaaca tgaacggcaa ggagctcgac ggccgtaaca 180

tcaccgttaa ccaggcccag tcccgtggcg gtggcggtgg cggcggtggc tacggcggcg 240

gtcgcggcgg cggcggctat ggtggcgggc gccgtgacgg cggttatggc ggcagtggcg 300

gctacggcgg tcggcgcgag ggtggtggcg gcggctacgg aggcggtggc ggctacggcg 360

gtcggcgcga gggtggtggt ggcggctacg gcggcggcgg cggcggctgg agggactgat 420

gtgt 424

<210> 41674
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C4

<400> 41674

gctgcctgcc tgtccttctc ctctcctttc ctctccccgc gcccaacagc ctcacatgtg 60

catctgaaaa gttgagaacg acagttcctg agcacagggc gcgatggacg tcccggccgt 120

ggcggaccct ggaacggagc gaggcgaagg cgcgctgatc cagtgcccgt actgcgactc 180

ggaggcgatg cacaagctgg cgcagatcct cctcccgggc ctcgccgccg tctgcgtgga 240

cggcaccacg ggggacccgt tccgcagccc gtccgcggtg gccgtggacc tccgcaagga 300

gatggtggac tacatcacgc agcggagcga cagcttcatc gcggacgcgc tgatcgagtc 360

ggaggcgaac caggacgcgc ccggggccga ggtgcccgac gacccct 407

<210> 41675
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-018-Q1-K1-C5

<400> 41675

ggacagggct ctcgcgacgc gatcggccat ggcggcgtct ctgcgggcct cgtcgtccgt 60

ccgctcgcgc ctcctctcgt tctcctcgga gtgttctctg tgtccgtggc gtctcctcct 120

ctcctcacct gtccactcgg acgcccccca ccagaccgaa accctcgctt tcgacgagat 180

ccagctgtcg ccggagaagc cggctaccgn cactgccttc gtcctgcacg gnctcctcgg 240

ttccggccgc aactggcgct ccttctctcg cgccctcgtc tccgaactcc gtaaccgatc 300

cccttcagac gagtggagga tggttctcgt ggacttgagg aaccatggca 350

<210> 41676
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C6

<400> 41676

cattcactaa cccaagacaa aacatggatg tgaatgtgag aaccatgtgg tcgtcgatgc 60

gggcacaggt tgcgatggct gtggtgttgg tgttcttggt gagcggcgca tggtgcggtc 120

ctcccaaagt ccccccaggc aagaacatca cggccaccta tggcaaggac tggctggacg 180

ctaaagcgac atggtatggc aagccgactg gtgccggtcc cgacgacaac tgtggtggct 240

gcgggtacaa ggacgtgaac aagcccccct tcaatagcat gggcgcatgc agcaacatcc 300

ccatcttcaa agatggtctg ggtctgaggt cctgcttcaa gatcaagtgc g 351

<210> 41677
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C7

<400> 41677

gcaaagctat atatgattct atggtataat gtgtggttgc ggcaaacgcg cggaaatgat 60

gtgcttgcgt gattggtttt ctctctcttt tttggttaaa taatgtaaac aatgcatacc 120

ggcgatggtt taacatggta actgagaatg tggtactctt tctc 164

<210> 41678
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C8

<400> 41678

gcgcgaggtg cggcgcctcc accggctcgt cggaaacgcc gtggtcgatg gataccatgt 60

gatcgtcggg actgggtcca cgcagctgtt ccaggccgtg ctatacgcga tctcgcctgc 120

aagtgacggc acgcccatcg acgtcgtctc gccggcgcct tactactcgt gttacccagt 180

tgcgtcgagc tttctaaact ctgggctcta ccgttggggt ggtgacgcca atacatttgc 240

cggcgacgac accagctgtg ttgaggtcgt ctgctcgcca aacaaccctg acggtggcat 300

ccgacatgcc gtcgtcaagt ccaaatccag caaggcgatc tatgacttcg cctactactg 360

gccgcagtac acgcccatca ccgaggcggc ttgccatgat gtcatgct 408

<210> 41679
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-018-Q1-K1-D1

<400> 41679

ctcaggcgaa gatctacggc aaggccatgg agcagctgac cgccgcaatg ggcgcctgcg 60

agagctgcga ggacgcgtgg aagggcgagg aggaggatgt ccccgtcgcc gcgcacgaca 120

gggagtacgg tcggatggcg cacatcgcct tcggattcac acaccacgcc gccgtcgccg 180

ccgccgccgc atgaatcgat taattattat atatatatat gcatgctatc tactatgatc 240

gatcgcttct cgaccttctt gcatcgatct gcatgcatat tataacttat attatattga 300

tgccacgccg catgcaggtc tttccaaggc gtacgtacta tatcaaatta tnttaatgtc 360

cttacatgta tatgtatgtg ctgctgatgg atacgtacgt atatatatat 410

<210> 41680
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D10

<400> 41680

gtcagggtca aggacgggca caagatgccc gatgcgcgcg acgaggacag gcagggcctg 60

gtcctcaact gcctagaggc gccgcttgac gtcgacatca agaacggagg gcgcgtcgtg 120

gtcctcaaca cccagaacct gccgctcgtc aaggaggtcg ggctcggtgc tgaccttgtc 180

aggatcgacg cccactccat gtgctcgccc ggcttctcct gcgactccgc ctaccaggtc 240

acctacatcg tgcgcggcag tggccgcgtc caggttgttg ggatcgacgg cacgcgagtg 300

ctcgagaccc gcgccgaggg aagctgcctc ttcatcgtgc 340

<210> 41681
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-018-Q1-K1-D11

<400> 41681

ctcggaggca gcgacgcgcg ggtggaggag ctcagtgaca gcgccagtgc ctatcgagct 60

agcgaatcga ggagattttc cccactgttt ctttcctgct gattccgatt tcacgttgaa 120

acaccggggg gagaagaatt gcgggcgacc ataactcggc aagaagcggc tccaaaaagg 180

gcatctacct ttgccgattc cggcaccgat ggataccgcg gcgtcgggga ggttcgacaa 240

gctccagagc tcgttcaagc tctccatcca gtgcctcctc acggcctgct cccgcgagga 300

tgtcaatgac gctttctcgt ccttcactga tgctgagaag gagcgtttgc accggatgct 360

caccttgtg atgaagaatc tgcatgccaa cgtantggat gagtttgacg actttctgcc 420

agaaacac 428

<210> 41682
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D12

<400> 41682

cccacgcgtc cgcggacgcg tgggaagaaa tatgaaactg cccagttcca gtaagtttag 60

ctctagatct ctagaagaaa aacaaaatca gtgcacagct gcctgctcaa atgatgcaac 120

acaaaataaa ggtggtttga gggaaagctt gtgggtaact cggcttttgc caaaagcatc 180

agtagaattg atggaggcaa caccatgcaa tgtagagaat gctgttagtc cacaggctgt 240

gggtgacaag ttgtgttgtc cacctcttca gaattttaat ttggagaagg aaactaataa 300

tatacaata 309

<210> 41683
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D2

<400> 41683

cacaggactt actgacgaaa agattaggag taacttgaat caacggaaat gtgtcttaaa 60

agcattggat gatcctctaa caagtgttgt accatgctgg gtgcgccagg aagacgatcc 120

ggaaggctag tacctggaca tgctggattg tggtcatgac tgtgaaacag catgtgtcaa 180

acaatggctg gttataacag acctgtgctg aatttgcaag aatacaggac tggacaccta 240

gaaacattga tgcctttacc cttatgaata agcctaccga ctctgggcaa gtaggttaca 300

tgtaacatac acgctgccat gactagcata gtatgttaca gctttcccat gatcatcata 360

catgttggaa tctatactat a 381

<210> 41684
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D4

<400> 41684

gcacgcagag gagcaggaag ccggagactc aagatgtcgt cggtgttcag cggcgatgag 60

acggcccccc tcttcggttt cctcggcgcc gccgccgccc tcgtcttctc atgcatgggc 120

gcagcgtacg ggaccgcgaa gagcggcgtc ggcgtggcgt cgatgggtgt gatgcggccg 180

gagctcgtca tgaagtccat cgtgcccgtg gtcatggctg gtgtgctcgg tatctacggg 240

ctcatcatcg ccgtcatcat cagcactggg atcaacccca aggccaagcc ctactacctt 300

tttgatggct acgctcacct ttcgtccggg cttgcctgtg gccttgctgg gcttgcagct 360

ggcatggcca tcggcattgt tggtgatgct ggagtcaggg cgaatgcaca acagccgaag 420

ccttttgtgg gcatgat 437

<210> 41685
<211> 367
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-018-Q1-K1-D5

<400> 41685

ggtggttgag gccatgacct gcggtctgtc cacgtttgcc acagcctacg gcggtccggc 60

cgagatcatc gtgcacggcg tgtctggcta ccacatcgac ccttaccagg gcgacaaggc 120

gtcggccctg ctcgtggact tcttcgacaa gtgccaagcg gacccgagcc actggagcaa 180

gatctcccaa ggcgggcttc agcgtatcga ggagaagtac acctggaagc tctactcgga 240

gaggcttatg acccttaccg gcgtgtacgg gttctggaag tacgtgtcca acctgtagag 300

gcgcgagacc cggcggtacc tggagatgct gtacgcgctc aagtaccgna ccatggccag 360

caccgtg 367

<210> 41686
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-018-Q1-K1-D6

<400> 41686

gtctcgtccc cgcacatcag cagagagacg ccactaccac caccgcaagc gacgacgggg 60

agatgtttct gcgacggatc ctgaccggcg gaggtggcct ggcggcgctg agggcggcgc 120

gcgccgtgaa ggagacgacg gggatcgtcg gccttgaggt ggcgcccaac gcgcgggagg 180

ttctcatcgg gctctacacg cgtacgctca aggagatcga ggccgtcccc aaagacgagg 240

gctaccgcaa ggccgttgag tccttcacca atcaccgnct tcagatctgc caagaggaag 300

acgactggaa gcgcatcgag gaccgaatcg gatgcgggca agtcgaagag ctcatcgagg 360

aggccgagga cgagctcaag ctcatcgcca aaatgattga atgggatccg tggngtgtcc 420

ctgatgacta cgaatgtga 439

<210> 41687
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-018-Q1-K1-C3

<400> 41687

ggactgcaat tgtcaccttc tggtgatgcc atggtagata tatctaataa gccacccagc 60

tgccaagacg taaaggaggc cccgagcagt gacattttgg gaaatgatga aaattcagac 120

accgagaaga ctcctgctgc cttgcatgga cggctgaaca ccgaacttgc tcctagtggc 180

agaaatacag aatttagtga agctgacact ggagaacaag agacacccgt gtctgctgag 240

gctatggtag aatcatcgag cgagcctcgc agccatgagg canaggaagc tncaaccccc 300

tgacctgtcn tgggatgatg aaaaagcgaa gtcagcaagg gctgctgnnt gtgcggaact 360

ttttggagat gcaac 375

<210> 41688
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D7

<400> 41688

gacaagatgg catgcacaaa caatgcgatg agagccttgt tcctcctggt cctcttctgc 60

atcgtgcatg gtgagaagga agagtcaaag ggcatcgatg cgaaagcgtc cgggcctggt 120

gggtccttcg acatcaccaa gttgggcgcc tccggcaatg gcaagacaga cagcacgaag 180

gctgtgcagg aggcatgggc atcggcgtgc ggcggcactg ggaagcagac aatcctcata 240

cccaagggcg acttccttgt cggacaactc aacttcacag gcccttgcaa gggcgacgtg 300

accatccagg tggatggcaa tctgctggcg accacggacc taagccagta caaggaccat 360

ggtaattgga tcgagattct acgcgtggat aacc 394

<210> 41689
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D8

<400> 41689

gactacttga tcatcgttag cctgcctttc gctgattttc agaaggtgaa cgtttgatgg 60

aagaacactc tcacaaatgg gattgttaac gtatcatgca ctagcgtagg tcggatgcca 120

ctcctgaaaa ggcatgatcg gactttcagg ttggcggatc ctgctcctga gcattgacca 180

cccggagagt ttgtccggga catcccactc cctacccgaa tccctgaaga ctccactctg 240

gaagcgtact gcgatgaaac aggcacagtg ctgtagatca ttgtcccgaa gtttcgcgtt 300

ggccctgaag aacacgaagt gcatgtgtac atgaggtcac cctcgtactg gtgccaatga 360

aacctgtttc caagcttgcg ctaggagaca cgcatacggt gtggagctat gccgtaaggc 420

taaagctact gcacaac 437

<210> 41690
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A6

<400> 41690

cacgaccccc accgcccacc agtgatcttt ccgccgcgac gcgaggcacc gcggccgggg 60

ccggccgcct tcctccagaa agtatcaccc gtggtcccgt gcgcccgaat cacctcttaa 120

tttcgttctt agccgctgcg tttcacagag gtcgcgacat gcccacctcg gcggctcctc 180

ctgcccagcc cgcggcaccg ccccctcctc ctcctcccgc ttctcctgcc cctccggagg 240

atgtggaggc gactgccggt tcaccttcga gggcttcagc agtggggacg gtgaactggg 300

gaacggtcac cctcgttggc gtcttcgctg ggctgctata cggcgggaag ca 352

<210> 41691
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A9

<400> 41691

aaaagactct ataacaggta caagcctttt gtttgtcagt attcgatcac tgggctatag 60

ttcctggtga tcccttagat aagagtattg tccttcgccc tctggagcca gcacctatgc 120

agcaccttgc ccgtgagttc atggtaaaga ccaggcgaag gaagggcatg agtgaagatg 180

tgagcatcaa taaattcttc gacgaggcca tgatgaatga gctggcccaa caggctgctg 240

atatccactt gcaaatgatg tagtcaaaaa gcgagatgaa gtgcacacgt ggaagatgca 300

tatgccctca gcttcttcat accatacatg ctgcagatgg gactgccgga gttccagtcg 360

cacctttatg ctggcatttg cccctacctg tttcgctttg attaacacat tatgattgct 420

gggtatcat 429

<210> 41692
<211> 354

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-018-Q1-K1-B1

<400> 41692

gcctcctaca ttgaccaaca actaagcctc cgtgaccgcc acatctatta ggtgcagcca 60

tgggtgcctg tgcaacgaag cctaagacgc ttgaggggaa agccccagct gaggccacca 120

tctccacacc caaggttgca cctgagacca ctgccatcca cattgaggtt gcggcgaaac 180

aggcagtagt tgagaaggtg gaggaggaca aggaggaggc actaacagtg gcggcgaaac 240

aagagccagc agccaccatc gagcctcaac agattgctgg tgaggtgacc acttcggaag 300

tggcggtcgt cgttgtcgag cctgagaaca aagagganga ggaaagtgtg gaga 354

<210> 41693
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B10

<400> 41693

gaggaattca ttacagtcgg ccgccttttc tttctccctc acgtcatctg gtcaactggg 60

cggtgcctcc atacgcacta gcgagctgcc tcgacctaat cactggtgcc ttacctgttg 120

cagctattgc gatggcaaag atggacaagc tttccaatgc aagggttaaa acagctggat 180

caatggctgc ctggacagca cacacttctc tacatgtgga taccagcggc acatatgttg 240

acaaattacc ttaacccacg taacactaaa cggctgtcag ctttcagcat gtcgattgca 300

atgctagcca acggacatat gattt 325

<210> 41694
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B11

<400> 41694

atctacaagc atgctgtgcc tgttccgaag tctgagtgca gcaagactac ccagttgggt 60

attagctttg ctggtggtta cgttgccggt gtcttctgtg ctattgtttc tcacccggct 120

gacaaccttg tgtctttcct gaacaatgcc aagggagcta cagtgggaga tgctgttaag 180

aagcttggtc tctggggtct cttcactaga ggacttcctc ttcgtatcgt catgattggt 240

acccttactg gtgctcagtg gggaatttac gatgcattca aagtgatggt tggactccca 300

acaacgggag gtgttacacc tgccccagca gcagaggctg gattgaaagc cagtgcttga 360

ttttttttttt ctgtgttccc tgagatcata tttggt 396

<210> 41695
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B12

<400> 41695

cggcccgagc cacgcgtggg aacgacatca ggaacgcggc ggtttttttt actcatcgga 60

cccggcacgg tgtgggggggc gcgcggctgc gctggcgagc gcctgcatcc tctacaccaa 120

ggacgtgctc atcgggcaga gcccgacccc ggcgttcgac agcccgccgt cggagaccgt 180

ggccaacaag gcaggcggag ggccctgttg gagagagctc ctggagccgg gtgtcaggcg 240

cgcgctcttc tgtggcgtca tgattcacat cctgcagcag ttgtctggca tcaatggtgt 300

gatgtactac acgccccaca tccttgacca 330

<210> 41696
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B2

<400> 41696

cgggagcaca gagctagcta gccagccagc cagcagccag cttgctcgcc gcgcccgtgc 60

ttgttcctcg cctccgttcc gttccgttcc gtcccgcccg ccgccgccgt cgcattcagg 120

gatggagatg aagaagatcg cctgcgccgt cctcgtcgcc gcctcggcgg ccaccgtggc 180

gctcgccgcg gaggctccgg ctccgggccc caccagcggc tcctccgtcg tcgcgcccgc 240

cgtcggcgcc gacctcgagg ccgccgtcgc ctacttcttc ggctactaca ttcagtgagc 300

cggccgcggc cggtcgcccc gaggccgagg aagagacgaa gcgggagaga gagt 354

<210> 41697
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B3

<400> 41697

caggccttgg aggaagccaa tggtgatatt cttgttttca tctcatcatt caacccaatg 60

aagaacagca tatccaagcg ccaggagaag actatcatga aactggtagt tgatgctgaa 120

actgacaaag tacttggtgc atccatgtgt ggaccagacg cacctgaaat tatccagggc 180

atcgctattg cggttaaatg tggagccacc aaagcagact tcgacagcac tgtcggaatc 240

caccettccg ctgctgaaga gttcgtgacc atgcgcaccg tgacgaggcg cttgagcccg 300

acatccaagc caaagacgaa cttgtaagca agaaattggt attctgggga aatgttacac 360

cggacaaata ctctggtttc atcacgttgg taatttttac gtcattggaa ctggaaccat 420

gtatattg 428

<210> 41698
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B4

<400> 41698

gagacaccgg ccgtcgagcg agcagtctcc caattccacc caataactaa taacatctgc 60

tggaacgcca ggttccttgg accactatat ccaggagcga cgaagtgatc cacccgccag 120

ccatggagat gaagaaggtc ctctgcgccg ccctcgtcgc cgccgtctcg gccaccggcg 180

tgctggcctc ggtcgcctgc gaggcgccct ccgaggcgcc cgacggcgcg gtcggtggtg 240

cggctggccc tagcgcaagc ggcgccggcg tcgtcgacgt gcccgccgac ggggcgctcg 300

tagactactt tctcgcctac tacctccact gagcgacgac gcgcggggcc ggcacgttgg 360

gatgca 366

<210> 41699

<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B5

<400> 41699

ggctggcggc tagcctctaa ccaatacatt aaaataaaac caactctccc attcggccag 60

ttcccatccc atctcgcctt cgcttcccac cacgcccctc cgtcccgcct cgccgcggca 120

aggcaccgac gccaaccgcc ctctccctct tcgactcgac cgcgtgagtg agagacgacc 180

gcgcgcgccc ctcgcccgcc cgcccgccag gagatcgacc cctgaacgcg tcatgacgta 240

cgtgctggtg accggcggcg tcgtgaagcg gctctggaag ggcgtgactg tcagcagcgt 300

<210> 41700
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B6

<400> 41700

cccacgcgtc cgcggacgcg tgggagccag cgcagtgcta ttagttgcta aaggcactgc 60

catacacaaa tctttccttg tgccattttt tgctcttcag gcaccttgca gcataatctc 120

atggatcaag ggtgactatg gtcagtggac tgcttttctt gctttgttgg tgcgtctatt 180

cttcttcatt ccaggtgaac tggagcttcc gctgtcaaca atgctgcttg tgagtgttgc 240

tccttaccaa ttcatggatc ttaagggaac tcaaagtg 278

<210> 41701
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B7

<400> 41701

gtctgcgctg ggcattctga tcaagagatc taacatgctg aggtcactgg tttcacgaga 60

tgatcgagca gattcatcac gcaattccca gagcggtgat tctaacacca agacaccatc 120

agagtttcaa gaacaggcag aaggaaatcc gaatgatggc gcaagtggag cggcaataaa 180

ggggactgaa gccgatcact gatgtaaatt tactcgtata tacgtatagt gttctagcta 240

tgcatgcttg cgtatatgct gtacttccct cgcaaatagg aacaggagag caaatttatg 300

ctgccatgtc aatagatctt cagtacacct gtaaagcaac cactcacagt tagatgatta 360

tttattgaat caaattttat ttaaaagaaa atttt 395

<210> 41702
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B9

<400> 41702

tgggcataca agagccaaga aagtgggtta atgcatgctt gtgggcacga tgcgcacaca 60

acaatgctcc taggagctgc taagctactt caagctcgga agggtgactt gaagggtgct 120

gtaaagcttg tgttccaacc atcagaggag ggctatggcg gagcctacta cgtcttgcaa 180

gaaggtgctc ttgacggcgt gtcagccata tttggcttgc atgtggaccc agcacttcca 240

gtaggtgtcg tcgcatcaag gccaggacca ttcacagcga cagcgggtcg gttctctgca 300

actattcgtg ggaaaggtgg tcatgccgca gtaccccatg aatccgtcga ccctgttgtg 360

gttgcagcca ctgcaatcct cagccttcag caaatcgttg ctcgtg 406

<210> 41703
<211> 110
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C10

<400> 41703

aataaagagt aaatgagcat ggtggatgtg tttatactag tcatcagcgg atcttgtagg 60

gggggggctttt ctgagataat ggcaaggtat ttctactttt tttgctttat 110

<210> 41704
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A5

<400> 41704

tggaaggatt atcagtaagg aacgtaatta ctggactaga cgagttggaa atgacgggga 60

tctcatatgc atcgaagatc cgcttgagat ctcccatgat ctcggtcgcg tagttgacaa 120

gttcaccatc aaaatactca gggaggaatt cgagcgagca gctaatatat tacagttcga 180

tccaaacccc agcgtaacac tctttgagcc ctacgtgccc cctccatcgc cgagcctgtt 240

gcaagaagaa actgcgaatg ctgcagaaat tgaactatga tagcgtttgg ttcgtcccca 300

ggtattggta tatgaaatag aatcaactca aggattttg 339

<210> 41705
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C11

<400> 41705

atttagtaaa aactcaatta ttggataaac cacgaattaa catgtcctta acctactggg 60

gtttcatgta gactgtctta atccatagaa gtcattgcat agcattatta ttttttcctg 120

ctgaattatc tttgtcaaaa tgttcagtgt gacaatcgtt gttgcatatc tcatgaagaa 180

gcatcaaatg agcctcgaaa gtgccttgtc actagttaga agtaaacgac ctcaagtggc 240

tcctaatggg gggtttattt cccagctgga gaagtttcag aaatccttgc aaggtaaaac 300

acaaatagtt gcctttgtcc tcctttatgt taaaatggtt tcagagcaag gtgacatgtg 360

tatcttgctt aatga 375

<210> 41706
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C12

<400> 41706

cccacgcgtc cggaacaatg gagatgatgt acactgacat cacacaagct ctcgaagcca 60

atggaatcca agcaaacccc aaggactatc tcactttctt ctgcttaggt aaccgtgagg 120

tgaagcagga gggagaatat caacctgagg aacacccaga acctggcact gattacatcc 180

gggctcaaga ggctaggagg tttatgatct atgttcatgc caaaatgatg atagtggacg 240

atgaatacat catcattggg tccgccaaca tcaaccagag gtccatggac ggtgccaagg 300

actctgagat cgccatgggc gcgtaccagc cgtaccacct ggcg 344

<210> 41707
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C2

<400> 41707

gagacatttt cggggtgtca ttaatttgga ggattgtaat cttgaggata atttagacga 60

tgaagatgct ccaagaagtt cgaaggattc caaaaaggca aatatggtag ataccggaaa 120

agattctagc cttatgttca agattaccca caagattgca tataaaaatg tgttgaaagc 180

tcatagcgct gttatactga aagctgaaag catgagtgat aaaactgaat ggatcgccaa 240

gattaagggc atcgtcgacc caaaaaggct ttctgcaaag aaaccaagcg cttcagaaag 300

cggtgcccca atgaggcaa 319

<210> 41708
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H11

<400> 41708

ggcgttctat ctcggcaacg ccgttggttg tcttgccggc cgcctagctg tctggggaat 60

caatcagctt ttttgtgagt agctatgcgc ggtagttgga aattggaata atgcagctat 120

gctttttttt agggttgcgc tcctagttct aataatgtac tacgtatatt ggaagcagaa 180

taaatgttag attgtaaaaa aagaaaatcc aaaaagaaat acgaagggaa aaattaaata 240

tggacaatta aaatgttaaa atattctggg gagaagccat ttgaggttg 289

<210> 41709
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-H12

<400> 41709

gagcctggtg caatgcaaaa tggtggcaga ggcttattca gaaaccttat gagaatggtg 60

atgatagagg gttgaaactt gttagagcta ttcttaggcc actaatgcta aggaggacca 120

aggaaacaaa agacaagatt ggaaatccca tactggttcc acctccagct cgtattgaag 180

ttgtagaatg cgaacaaact gaccatgaac gtgatttcta tgaagcactt ttcaggagat 240

caaaggtcca atttgacaaa tttgtagcac aaggcagtgt tctgaacaat tacgctaata 300

ttctcgagct acttctccgg ctaagacaat gctgcgatca ccctttttctg gttatcagcc 360

gagctgaccc taanaagtat gct 383

<210> 41710
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H2

<400> 41710

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgga cgcgtgggct ttactcgtgg 60

gccaatttat cagttgcagg tactaacggt gccaggctac cagctttgac tatgtgattt 120

cattacttgt tgtatttaga aaatctaata ttatgaaggt caactttctt attttactga 180

aagtctaaaa cacactacct attaacatat tagtgcctgc tcaagtgcag aaaaatggtc 240

aaaatcttcc ttgtgttgtc ttagcaatgc tttagcactc catatattct attataatta 300

ggcagggttg gagaagaaaa gcgcatcaca gggaatatct atgacacttt tatactcatg 360

ttcttgtgtt tcttgtttgc agcctacaca aatctggagt ttgaacacac gacaggtgat 420

atgcttatcc tttgtggatg gact 444

<210> 41711
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-H3

<400> 41711

ctggcatcgg cgagttccag tgctacgaca ggttcatgct gagtagcttg aaggcggctg 60

ctgaggccgt gggcaagccg gagtggggca acgcgggtcc gggcgactcc ggcagctaca 120

aggactggcc ggaggacacg ggcttcttcc ggcgcgaggg cgggtggagc acggagtacg 180

gggagttctt catgagctgg tactcgcaga tgctcctgga gcacggcgag cgcatcctgt 240

cggcggcgac gggcgtgttc acgggttccc ccggcgtgaa gatctcggtg aaggtggccg 300

ggatccactg gcactacggc acccggtccc acgcggcgga gctgacggcg gggtactaca 360

acaccccggt cgcacgacgg gtacgcgcnc atcgcgcgca tgctggcgcg cca 413

<210> 41712
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H4

<400> 41712

gcgtcgttct ctcttcctgg tccaagtgat cttgccaagt tacgagcagc gagcagagat 60

cagatcatcc atcggcaatg tcgaacatcg ggcagtcctt ccaggccggc aaggctgagg 120

cccagggcga gtaccaggcg gagcacgcgg cgcagtgcgt caaggacacc gccgcagccg 180

cggccgacag tgcgcagctg cagcagcacc gtcccaccgg caccgttgag caggtggcgc 240

agacgggcca gggcgtggcg gcaggcgtca aggacacggt ggcgggcgcg gcggttggcg 300

tcacgaacac ggtggcgggc gtggcggcgg gcgtcacgaa cacggtcacg ggcgccgtgg 360

cgggcgtcac gaacacggtg accggcgcgg ccgctggtgt caaggacacc gtgaccggct 420

gccactgatc gacgacccaa gaatgcctca tgcat 455

<210> 41713
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H5

<400> 41713

atcattttag atgcacttag agaaacagga caaaggggaa tcattagccg tggttgggga 60

gctcttggaa gtttttcaga agttccagtt gatgtcttca tcttggagga ttgccctcac 120

gattggctct tccctcggtg tgctgcagtg gtgcatcatg gtggagcagg tactacagca 180

gcagggctga tagctgggtg tcctactact gtagtgccgt tttttggaga ccagttcttc 240

tggggcgaga gagttcatgc acgaggagtg ggtcctgcac ctatatctat cgcagaactt 300

actgtagaag cactatcaga tgcaataata ttcatgcttg atccagaggt aaaatcacga 360

acaatggaac tggcgatagc aataagcaat gaggatggtg tggc 404

<210> 41714
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H6

<400> 41714

cataaatcat agagggtaga aggttgctta tggttcatta gtgagttgac ttattgtttg 60

ttttgctaga tggttttcac cgtaatcaat aatatggtgt tagagcattc taaatttcaa 120

gaacatagta attgtagaag ctaaaaaaat agaagtaact aggagctaag ttaaaattat 180

tgctctctag acctgcatgt ccaattttaa ttatgcagtg aagtaaatta tgttttctgt 240

aaaagtgtta tatagaaaag ttatagctaa ctcctttatc ttgcttgtgc taaaatttca 300

tgaccatagg tctgtagttt aaaagttatg attttctcaa gtccagtctt ggaatctgtt 360

tagattttgt acatatttcg aaactgactt tgtttgttca atttaaacat agaatcagtt 420

cttataaatt ataagaagtt gtatgtaac 449

<210> 41715
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-H8

<400> 41715

cccacgcgtc cggtgatttg aaataattgg gaataaatag ttcgtgaatc cctgaagcgt 60

gcatatatat attcctgcca agataaaggt aatggagtcg tcacgcaggt tccagccggc 120

cgtcatcctg cttctcctgc tcattgtgtc caccgatatg gcacaggcaa gggaatgcga 180

gaagtacagt gagcgatttg ttggggcatg catgatcgca gacaactgcg ccaatgtgtg 240

ccgcggtgag ggcttcttgg ccggcaagtg cagcaccttc cgncgtcgct gcatctgcac 300

taggcagtgc taaacaagat cgctcgatcg ctcgccatgc atcgacaacc tattcttaat 360

aacgttcatt atctcgttct taattatgac gaatgtcatg tatgttcttg tgactgtcat 420

gtatattctg a 431

<210> 41716
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H9

<400> 41716

tgcgtccaaa ttctacgagg ggtttgcttt gtcatcaccg gcaagagaaa ccttggcggg 60

caggcaccac tcgtgtggag caagaactac tgcaccaaga aatacgactg ctagcacctt 120

cccaactcgc tggggatgga cttcgtgaac aacgatgatg cttccgttgt cacgctgctc 180

aactacaatt tcttgcacat gaacatgtac cgctacaagg acatactgat caatgacgtg 240

accttaacac gaccgcaaga cagcccgaac acagataaca tccacatagc cgactcatga 300

cggatcacga tcactaacac 320

<210> 41717
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A1

<400> 41717

cgcgagccct ttttttttt tttttctcaa gaatatcagc agcaatgtaa ccatatacgt 60

agaagcacta tatatggttc ccacacgcat atattattat tactgttcac atcgccgcag 120

ttatatataa aaacattact atctactagt gctttattcc acataatact agtgctagta 180

tcgcatcatg ccctaacttt tctttgccaa acattattgt ttgcctcctg gtcgtggtcc 240

tgggttggct ccttgatgcg catccatcta ctagtatact ggaaaactgg ccactacaag 300

ggccgatgct gctcatggaa gtata 325

<210> 41718
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A10

<400> 41718

cgctcaagta ccccctctgc atccgcttcg ctgtcaagtc cggtggctac cgcatcggcg 60

acgacgtcat ccccgccaat ttcaaggccg gcaccaccta caagaccacc ctcagcatct 120

gattagcctc ttatgacgaa taatatttca agagagctca tccggcccat gtgccagcga 180

gctaatattt aattcttctt ctttggatat attgaggcac cacacgagcc aagaaaaaag 240

ttatgctaca tgtcccgtct cacgccttga tgcgttaggt tgatatgcat gattacatag 300

attaaactac acttttattt aagatttttt ggggagacat atattgatct 350

<210> 41719
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A11

<400> 41719

cctacgcgtc tgatcaaggc ctccgctagg agcacgatga cggggtccga gatcacactc 60

gatgtgatcg tggactgtgc gagcgtgcgg tttcatacag gattggaacg gacaggcttg 120

acgcgcggga gcatatctag tcgtgcaggc cggcgcgagg ctacgagcat catggagttt 180

ctgtggacca tgataacgtg atgcatcgta taagaggacg aggacaggac gtcctgacag 240

gacctgcgga tcccatgatt ctcggaagag gcaccctgaa tcgaagc 287

<210> 41720
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A12

<400> 41720

ctccaagaag cggttccgca aggcgcagtg cgccatcgtc gagcgcctca ccaactcgct 60

catgatgcac gggcgcaaca acggcaagaa ggtcatggcc gtccgcatca tgaagcacac 120

cctggagatc atccacctgc tcactgacgc caatcccatc caggtggtcg tggacgccat 180

tatcaacagt ggaccacgtg aggatgccac ccgtattggt tcagctggtg ttgtgagaaa 240

gcaagctgtg gatatctcac ccctgag 267

<210> 41721
<211> 329
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-018-Q1-K1-A2

<400> 41721

gagcgacaga gagagagaga gagaccgacg cgccggcaga tcccaagttc accggagagg 60

gggaagaggg cgaccgaagg cggcgatggg tttcatcatg gacttcgcgg agaatctgat 120

cctccgtctg atggaggacc cggacaagcg cgaccaggtt cggcgggagc atgtctacaa 180

gatgaaggag cggtgcgagc gcactaaggc ggcgtggagc ctgcctctgc gcccctacgg 240

cttctggacc ttcgaccgct tcaactcgca gctctcctgg gatccccaga tcagccaggc 300

cgncggccgt cgggacccct acgacgacc 329

<210> 41722
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A3

<400> 41722

aaaaaaaaaa aaaaaaaaaa aaaaaaaaat aatttaaaaa aaaaaaaaaa aaaaaaaaaa 60

ggagggaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa 120

aaaaattaaa aaaaaaaaga agacccttat aaacactacc atttacattg agagtatttc 180

tacacaatca atttttttata cggacgcact atttaaatat gtagccctaa tataatcaac 240

tactcattat gaaaaatcca ccatttaaac taataatttt gctggaaacc ttacaacttt 300

taaactttcg gtcgttttta aaaattctgc gaacatata 339

<210> 41723
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A4

<400> 41723

gagccatact tcgccggtgt atcagagggc atttgccacc gatgaaccct ccgcctccgc 60

cagaggcatc accgtcgaaa ccaccatcta catcgccagc agcatcacca tcggaatcac 120

caccagcagc atcgccacca gaatcgccgt cgacaccacc accagagtcc gtcgactaca 180

ccgccgacac cagcagcagc accaccgaaa tcaccgtctg atccaccacc agctacgcca 240

ccaaaatcat catctgatcc accgtcgaca ccagcagcta caccaccggc gactccatcc 300

ccatcatctt aatcacgaag gatatttcaa aagcagtagt agtttagtca aattagatat 360

gcgttttagg attctagttg atatgc 386

<210> 41724
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H10

<400> 41724

gaaaacagcc gagcgatctc ctcttcctct ccctctccga tccattctcc agcgcagcga 60

agtaaacatg tctgaccggg caaagatgtc gtggcaggcg tacgtggacg agcacctgat 120

gtgcgagatc gagggccacc acctcgcggc ggcggccatc gtcggccacg acggtgccgc 180

ctgggcgcag agcacggcgt tccccgagtt caagaccgag gacatggcca acatcatgaa 240

ggacttcgac gagccagggc acctcgcgcc gacaggcctg ttcctcggac ctaccaagta 300

catggtcatc caaggcgagc ctggtgccgt catccgtggc aagaagggat caggaggcat 360

caccgtgaag aagacagggc aggcactcgt cgttggcatc tacgacgagc cgatg 415

<210> 41725
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F6

<400> 41725

gttgactaga cttttgatca caatgcaaca aagaataggg gcagcaaaaa ctgatatgga 60

ggatctcata gcacgactaa atcaggaagc agctgttaaa gaatatctta ctacaaaggt 120

taaggatttg gaggttgaat tggaagccgc aaagcaaaag ggtagagaga cactgcaaca 180

agctatcctg actgaaagag agaggattac ccagatgcag tgggatatgg atgagctccg 240

taggaagtat tctgagatgg agtcaaacct gaaggctgaa caaaatgaga aaactcgtgc 300

agagtcagag aaaacaaccg ctagtgataa aaatgaaaca ttacttgaag aattagaaat 360

caaacgaaaa gaagtcgaga ctttgaacat catcttgtag aagctg 406

<210> 41726
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F8

<400> 41726

gggagatgga gagggtgaac gtgctccgag gcatcctaga caacaacgtg ttcgccatgg 60

tgctcggcag caccgtggtg ttccagttcg tgatcgtcca gtgcctgggc agcttcgcca 120

acacgacccc tctcagcgtc gcgcagtggg gcgcctgcgt cgccatcggg ttcgtcggca 180

tgcccgtcgc cgtggcggtg aagatggtgc cggtggagta ggcgggcctc tcgatctctc 240

tcggagttga gaaactggag gcaggcaggc gggcagtagt tgttggcttg aaatgtctat 300

aacagcagta ttctttttt ttttgtggt aagaacagaa cagaacagaa caggctttat 360

ccatctgtga ttctactac 379

<210> 41727
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F9

<400> 41727

aaaaaaaaaa aaaaaaaaaa aaatttttt aaaacatact aaaaaacata aaagcagggg 60

ataaatacaa aaaaaatacc gatataacga aaacacaaat caatacgact actgcataaa 120

aaaaaaactg atgtgaggac acgcacatta ttacaaatcg ggggcggctg ttttaaaaga 180

atacagtttt ttttccatta gctgaaactc aaaaattctt tttttagcac gacaaactta 240

tactgttttc gccgactttt ctaatcacag gtttttaaaa actgtttatt tccctaaatt 300

tttaccgt 308

<210> 41728
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G1

<400> 41728

ctccagattt gggacacggc tggccaagaa tcattcagat ctattactag atcatactac 60

agaggtgctg ctggtgccct tttggtttat gatattacta ggagggagac cttcaaccat 120

ctcgcaagtt ggttagaaga tgcaaggcag catgcaaatg ctaacatgac tgtgatgctg 180

attggaaaca agtgtgatct ttctcataga cgtgctgtca gctatgagga aggtgaacag 240

tttgccaagg agcatggtct ggtctttatg gaggcatctg ctaaaactgc acaaaacgtt 300

gaggaggcat tcattaagac cgctggtaca atatacaaga aaatccaaga tggcatattt 360

gatgtatcaa atgag 375

<210> 41729
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G12

<400> 41729

atgggttatc catgagaatc ttgccaaaaa atttggcata accatcgagc cccctgatag 60

tgtaatgaag aaaggggggaa aaagacaaga gaatgaaact gttgaaaatg gaaggaaaaa 120

gctcaagaca gatgaagaac atgcttatgt gctgattaag tatccaataa atgatctgct 180

agtaaggccc aatgcagatg atccgtcttt atttaaa 217

<210> 41730

<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G2

<400> 41730

cacttgttga agaagactta ctctggcgct gttgtgacaa tttttgggct acttataatg 60

attacactgt ttgtgcatga gctgcagttt atcttacca cctacacggt gcatcagatg 120

tctgtagatc tgaaacgagg agaaactctg ccaatccata tcaatatgtc atttccttct 180

ttgccatgtg aagtattgag tgtggatgca attgacatgt ctgggaaaca tgaagttgat 240

ttgcatacaa atatttggaa gcttcgcttg gataagtatg gccatatcat cggtacagag 300

tacttgtctg acctagttga aaaggggcat gggacacatc atgatcatga ccatgatcat 360

gaccatcacg atgaacaaaa gaagcatgaa caaaccttca acgaagaaag cagaaaaatg 420

atca 424

<210> 41731
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G3

<400> 41731

gtgaaaatgg aagtcgagga cctgacggcc ggactggcca gcggcaggat atgtgctgtg 60

gagaacatcg cccagctggt ggctccggag gcagaaggcc cggccgatgc cacggccacg 120

gccacgctgg ctgcttaacg gaccattgtg ccattgttgc tgtgagagag atgtgcgtca 180

gccaacatgt gtgctattgc tttggcttat ttgtgttcag aatccactta aactcggtcg 240

aagtgagctt tccgttcggc aacgtctgta ctcttacgaa tctcgatcgt gtatgtcttt 300

aagtattgtg ttgtgtttca aagataaaaa aaggtgacct ttgtgtatga tttttt 356

<210> 41732
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-G4

<400> 41732

cggacgcgtg gggccacggc gatgctagct acactattcg cggttggttt gtgcaccacc 60

ccgctcacct tccaggtcgg taagggatcc aagcctggcc acctgatcct caccccgaac 120

gttgccacca tatccgacgt ggagatcaaa gagcatggtg gcgatgactt ctcctttacg 180

ctgaaggagg gcccgaccgg cacctggaca ctctacacca aggccccgct caagtacccc 240

ctttgcatcc gctttgctgt caagtctggt ggctaccgca tcgtcgacga cgtcatcccc 300

ggcgatttca aggctggcac cacttataag acgacactca gcatctaatc agcatctgaa 360

gatgaactat atttcaaaag agctcatctg gcgcacgtgt tagcaagaca attnttttct 420

ttggatattt tatggca 437

<210> 41733
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G5

<400> 41733

cgacgctaaa gtcaaacatg tcaaaagaag agtataaaaa tatcgttgtc caagctaaag 60

aacacatctt ggctggtgac atttttcaag cagttctaag ccagcgcttg gagagacgga 120

cgttcgcgga ccccttgag atctaccgtg cgttgcgcat cgtgaatcct agcccatata 180

tggcctatct acaggcacga ggctgtattc tcgtggcatc aagccctgaa attcttacgc 240

gggtacaaaa gaggacggta gtcaaccgac cgcttgctgg aaccataaga agaggcaaaa 300

caaaggcaga agacaaagtt ttagaacaat tgcttctgag tgatgaaaag caacgtgctg 360

aacatattat gcttgtagac cttgggcgca atgatgt 397

<210> 41734
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G7

<400> 41734

ctcacgtgtc acctcttcac gaggaactta tccccacttc aattcatacc cctggatcac 60

cctattcttg tgatgtcccg atggttgaag aggccataga cgccatctgc aagagccacg 120

gaacaccacc agatgagaag attgccatca ccaaagctat tataaatgta tcgaatggat 180

ccaagccccc actctttgct ggcatcatag cacttgtgat gagcatcgca acgatggtcc 240

gtctgacccg cagcatgatg cctgggaagg ttctcggtgc tgccataggt ggagctaccc 300

tctcagaagg taaatcaaaa gtacaagagc gccagcggtc caagctatca gaagaggctg 360

tggaagaagc tg 372

<210> 41735
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-G8

<400> 41735

cggacgcgtg ggtgcgggat caagaacgtg aacctgccac cctacagcgg catgacggcg 60

tgcggcaacg tccccatctt caaggacggc aagggctgcg gctcatgcta cgaggtgaga 120

tgcaaggaaa aacctgagtg ctcgggcaat ccagtcacgg tgtacatcac tgacatgaac 180

tacgagccta tcgctcccta ccacttcgac ttgagcggca aggccttcgg ctccctggca 240

aagcccgggc tcaacgacaa gattcgccac tgcggcatca tggacgtcga gttcagaagg 300

gtgcgatgca agtaccccgc cgggcagaag atcgtgttcc acatcgagaa agggctgcac 360

cncaactacc tggccgtgct ggtgaagtat gtggcggacg acngcgacat cgtgctgatg 420

gaaaatcagg ac 432

<210> 41736
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G9

<400> 41736

ggcatccacc gacgagtggc gttccctgcc gctgatgggc ctgctgaggg accggcggct 60

gctgatgcct ccggtgctgc taccccttgga agcggagctg ccatcgctgg tgtcgccgct 120

gctgtcgcta ccatgatctt ctactgagtt caccagctgg gaccgtgtcg tcaagggtgg 180

gcacgtactt ggctgtgcgg taattgctcg tctggtcggg agggaccaat aacgcaagtg 240

ttgctttgct ttgctcactt cgtttgctct tgtaacttta tggcgtcaac cgttatataa 300

ctgaaacgat ttgattaatt gatactaatg ctctct 336

<210> 41737
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-H1

<400> 41737

gattccgctc tagcgaacgg gacgaccttt gtgcttggaa gggtcatcct aaacatgagt 60

ccccagcgga acaactgctt caagcgcttt gttatcaaca acctgtacag gttcctgcag 120

aagaacttca ggtccaacat ttccagtctg aagatagctc ctagcaaaac cttgcacgtt 180

ggaatgcaat atgagatttg agtagaggag ccttgcaaga tatgatggac gtgagattct 240

agaacatgca gacgtgggta gtttagaatt agatgttttt tgttttgttt ttgaaactag 300

cgatctgttt gtaattaggt cagcctcgcc atacaaagct accatggtca taactttgga 360

actatntatt tgagtgtggt ctttgttgca caatt 395

<210> 41738
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F4

<400> 41738

atttgccacc ctcgtctcac cctccctccc tcacacaaat aataaggaaa ggtcccgccc 60

tttgtcctcc gacatccaca agggggggagg ggaaaacacg tacattcacc cggcggcaat 120

aatggcctcg gttccggctc cggcgacgac gaccgccgcc gtcatcctat gcctatgcgt 180

cgtcctctcc tgtgccgcgg ctgacgaccc gaaccttccc gactacgtca tccagggccg 240

cgtgtactgc gacacctgcc gcgccgggtt cgtgaccaac gtcaccgagt acatcgcggg 300

cgccaaggtg aggctggagt gcaagcactt cggcaccggc aagctcgagc gcgccatcga 360

cggggtcacc gacgcgaccg gcacctacac gatcgagctc aaggaca 407

<210> 41739
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E11

<400> 41739

gcgccgggtc aggggagggg cggtggatca gatcagcagc cgcacgagca ttgagcgaga 60

tggcttctat gtaggatgca actggacatc gccgtccact cgtctagcta ttgatgctga 120

agtcccgatg cttcatgcca ccgcgatggt ggctggttga tctccgatat caagaggagg 180

gaagaggcac tgaagaatgg tgcagatcca catttgtttt tgcataattg ctgccttagc 240

tccaccaatt gtatttcatg ggaaatcatt aacgtaagtt tgccactcct tttatctaaa 300

gtaatcaaag tcattagtta ttatgggctt gggtaatgtg agtaagcacc attgcataga 360

tagccagtga tgttggctgc tggaaaagga gaaatcaatg aattatagat tgggatcaca 420

gaact 425

<210> 41740
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E12

<400> 41740

gtctccggca gcagtggcgg cagtgggcgc ccgtcccccg cgcagaggct ccaccactcg 60

ggaggcgccg agaacagcag gtcgtccccg cgctcccccg tggcccggaa cgcggccggg 120

aggggaggct ccgcctcgcg ggacaacacg acgttccgca gcctcgagcg cctcaccatc 180

accaccagca ggaggaagtg agctgccgag gaccacgccg acgaattctg agagtggaag 240

gcggttacta ggccgaggaa cttttgcggg atccttgctc tctgcagctg aagcaaatcg 300

gcaaatagat gatggatgga tggttacaag gctgccatga aaatgcaccc tttccccaaa 360

ccccagcgta tagtataacg ctctccccaa actccaagag ggaagacaac tccaaagtac 420

aatgcaatct tgattctgtc gatc 444

<210> 41741
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-E2

<400> 41741

ccacaatgta tataaagtcg ttgaagcaag aaaaggaagc atgcttctgg cactagccat 60

gctctttcct tttggtttgc tcttggctgg agttcttgtc tggtcctacc tttctccttc 120

agatataatg agaacccaac cacatttgct aattattgga actggttttg catttggatt 180

tcttgtggga agaatgattc tggctcactt gtgtgatgaa cccaagggtt tgaaaacagg 240

gatgtgcatg tcccttgcgt attttccatt tgcaattgca aacgcgttga ctgcccggct 300

tgatgatgga aatccactcg ttgatgagca gctagtgctc ctgatgtact gnctatttac 360

agtggctctg tacatgcatt ttgctacatt cagtattcat gagatcacca atgcactcgg 420

gatccactgc ttcangatca ctag 444

<210> 41742
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E3

<400> 41742

aggggatgga gccttggagc ccgaagaaaa agatgcctgg cgatgtgccg gagggagccg 60

tgctgatccg ggaacacaca gcgacgacca acctgttcag ctgcctctgg ttcaacgagg 120

tgaacctctt caccccacgc gaccagatca gcttcggcta cgtggcgcgc aggctcggcg 180

acgctctcga gctcttcatg ttccccaact gcgagtacaa ctcgctgttc gtcctgcaca 240

ggcacacgag ggagcactcg tctaaggtcg agtgggccaa aacggtcgac gagatcgtgg 300

agaaggggct gagggagagt agaggagggt tggggctgtg gactccgtac cctgcggacc 360

<210> 41743
<211> 379
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E5

<400> 41743

cggacgcgtg ggtttttttt ttttttttt taacctcgag cagtttcact gacacaaagt 60

ttgcagtctc agatacatta tatagctaag taaagatagc catcaaactg ctaaaagcca 120

gaagaggcga ttgtcaacgg tataaataga gcatctaaat gcaagtcaaa aggcgtttct 180

caatgttttg gtgagtttga gcaccgtgct tgcaaacaga aattattgaa tggcatggcc 240

atatcccttc tcaaaactat agaaccaaaa ttggacatag ctggccagta tttagttgtc 300

agccacttca attagggttt gctcgtagtc agcaggggcc tcaaatccat ggaggttcat 360

cacagttgcg gctacattg 379

<210> 41744
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E6

<400> 41744

accggcacct cctccacccc ggaggccgtt agcctgctct gcactgccaa ggtcgcatgc 60

accggcgtca ccatggatga cgtcaacgtc gagtatagcg gcaccaacaa caagaccatg 120

gctatatgca cgaacgccaa gggcagcacc aagggttgcc tcaaggagct tgcatgcttc 180

tagaccctgc gtcgactgac ccatctctct agtgataatt cttctctcgt ccttgcattg 240

cccattacat gctatccatt ggtaacgcac aacagtaaaa tgacagacat gcgacagcta 300

tattatgttc gacggtgtaa caccctgaat ttgagggtat aaaatttttt ctctaaatac 360

caacc 365

<210> 41745
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E7

<400> 41745

gaaagagaga gagagagaga gatggatgag gagtacgacg tgatcgtgtt ggggacgggg 60

ctcaaggagt gcatcatcag cggcctcctc tccgtcgatg gcctcaaggt ccttcacatg 120

gacaggaatg actactacgg aggagaatct tcgtccctga atctaaccaa gctctggaac 180

aggttcaagg gcaacgacag ccctcccgag cacctgggcg tcagcaaaga gtacaacgtc 240

gacatggtgc ccaagttcat gatggcaaac ggcgcgctgg tccgcgtcct gatccgcacc 300

agcgtgacca agtatctcaa cttcaaggct gttgacggga gctttgtgta caacaatggc 360

aagatccaca aagtcccggc aaccga 386

<210> 41746
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E8

<400> 41746

aataagatgg cgtgtataga caatgcaatg agagccttgt tccttttagc gctcttctgt 60

gtcgtgcatg gtgagaaggc aaagtcaaag gacaacgatg caaaagcgtc cgggcccggt 120

gggtccttcg acatcaccaa gttgggcgcc tacggcaatg gcaagacgga tagcacgaag 180

gctgtgcagg aggcgtgggc atcagcgtgc ggcggcaccg ggaagcagac gatcctcatc 240

cccaagggcg acttcctcgt cggaccactc aacttcacag gcccatgcaa gggcgacgtg 300

accatccagg tgaatggcaa tctgctggcg accacggacc taagccagta caaggatcat 360

ggtaattgga tcgagattct acgcgtggac aaccttgtca tcaccggcaa gggaaagctc 420

gacgggcagg ggccagccgt gtgga 445

<210> 41747
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E9

<400> 41747

gcctagttca tcaactagta caagtttgaa ccatggtttg ctggttggtt cctttcctga 60

taggggtata gggagggcct cagcagttga gcataaatgt aacctggcag gcacgtctta 120

tggggaaaga actgttgaac acacagaaaa tggtcatgtg ttatcaacca ggtctgtcaa 180

aggaaatgag ggaactaaaa acagaaaagc ggacaatgaa atgatctggc aagctgtgct 240

tgaaaatatc caatcaaata cattgagaaa aatgat 276

<210> 41748
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F1

<400> 41748

cagaatccac aatttttttg tgatttccag ctagacgatg atgggaaaat agttagtatt 60

ttttggtcac acgcaagcat gcaggggggaa tacgcagatt atggtgatgc tgtgacattt 120

gatacaacac acaagacaaa tatatatgat aaaccactgg gcatgtttgt tggagctaac 180

agccatctgc agtgtacaat gtttggattt gttttgttgg gagatgaaac agtacagact 240

tttgaatggg ctttcaattc attcaaaaca tgtatgggag gcgagggtcc aagagttatg 300

cttacagatc aagatcctgc aatgccaatt gctctgagaa ctgtatttcc aaaaacagtt 360

cacagactgt gcttatggca tgtacagaac agatttatgc cattccttga tgagatatat 420

g 421

<210> 41749
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-F10

<400> 41749

cagaacttga cttatatact gaacacccat catcactacg atcatactgg tggaaacttg 60

gaattgaagg caaaatatgg tgcaaaggta attggttctg agaaggataa ggacagaata 120

cctggcattg acatcactct taaggagggt gacacatgga tgttcgctgg ccatcaagtt 180

cttgtactgg aaactcctgg gcatacaaca ggtcatgtgt gctattattt cgctggttct 240

ggagctatat ttacgggtga caccttgttc aatctatcat gcggaaagct ttttgaaggg 300

actccacagc agatgtattc ctcacttcag aaaattacag ctctacctga tgatacaaaa 360

gtatactgtg ggcatgaata taccttgagt aatgcanagt ttgccttgag tgtagaaccg 420

ggaaataaag 430

<210> 41750
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F11

<400> 41750

ccgaccccga ccccgacccc gattcccgtc ggtgcttcgc caccccgatc cccacgcgcg 60

cgatggcgga gccggctccg gctcccccgg tgaccgcgcc gctggtgggg ctgctgtacg 120

acgagcggat gtgcgcgcac gcgacgccca acggggagga acacccggag aaccccgagc 180

ggctgcgctc catctggcgc aagctcaacg ccgcgggcgt cgcgtccagg tgtgtggccc 240

ttaaggcaaa ggaagctgag gacaagtata tagcttctgt tcacagcaag aggcatataa 300

agctgatgaa ggaaattagc tcaacaatat atgatgccag caggaacaag attgctagga 360

aattcaattc catttacttg aataagggtt cctcggaatc t 401

<210> 41751
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F12

<400> 41751

gcatcatctt ctccgatcca tcaacaatcg ccgagagcga tcgagagata aataaagatg 60

aagaaagggg catcatcgtc agccgttctc ttcgtgctag ccctgacgct agtttgtgcc 120

ccgctgatag cagaagcaaa gaagaagaga gtcgccgccg ccgccgccga ggagaagaaa 180

gtgcaggaca acttctgctc gacgctgtgc gagggcagga aggggatgga cctggtggtg 240

tgcaaggagt cctgcgacct ctcacaacgc tccaacctgg tgctgtacgg ccggatccag 300

tgcaagggca agtgcac 317

<210> 41752
<211> 433

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-F2

<400> 41752

tttcacggca attgcagcta tcatattcgg atcgatattt tggaatgttg ggatgaaacg 60

agacacaaca gaagatttga tgcttgtcat gggatctctt tacgcggcat gcctgtttct 120

tggtgtaaat aacgcctcat ccgtgcagcc tgtagtatca actgagagga ctgtctacta 180

ccgggaacgt gctgctaaaa tgtactcatc gttcccatat gctgcagcac aggaaagctg 240

cttctgtatc ttcttttcat gttccttact ttcacctact tcacgttcta cgggatggtg 300

gcggtaggct tgaccccaac acaacaagtt gcagcagtag tgtcatctgc tttttactcc 360

ttgtggaatc ttctctccgg gttcctcatn ccccagtcta ggatccctgg cttgtggatc 420

tggttctatt aca 433

<210> 41753
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-F3

<400> 41753

gaaataattg ggaataaata gttcgtgaat ccctgaagcg tgcatatata tattcctgcc 60

aagataaagg taatggagtc gtcacgcagg ttccagccgg ccgtcatcct gcttctcctg 120

ctcattgtgt ccaccgatat ggcacaggca agggaatgcg agaagtacag tgagcgattt 180

gttggggcat gcatgatcgc agacaactgc gccaatgtgt gccgcggtga gggcttcttg 240

gccggcaggt gcagcacctt ccgccgccgc tgcatctgca ctaggcagtg ctaaacaaga 300

tcgctcgatc gctcgccatg catcgacaac ctattcttaa taacgttcat tatctncgtc 360

ttatttatga cgaatgtcat gtatgttctg gtgactgtca tgtatattct gatgactgtc 420

atgtatcttg gtcatgtatg ct 442

<210> 41754
<211> 435

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E10

<400> 41754

aaaggtcgaa gcgtcgtctc tcttggcacg gagcctagtg cccggcctcg tgagatccga 60

aattcagaag cgaggatggc gacgaccgcg actaggcggt ggtggaggcg gcacgaaggc 120

ggcgacgatg acccagacga cctcgtcccc atggacaccc aagagcaaga agagctggtc 180

cggtctctgg aggctaagca ggcgcagcaa ggccgccgtt ggaggcgcgt cttcgcgggg 240

ttcctcctat gttacgcggc cttccttgac tactccagtt tccatcatgc ttggtctccc 300

tgagagctgc ggtaccatgc ttacttcatg gaagatttgc ctgcaccaat ggtcataatt 360

gcaggattac tacagaattg acgcccatca aagaagtgga tgtggaattc ttgctatgtg 420

ggcatttggt agcca 435

<210> 41755
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-C5

<400> 41755

agatacaagg catatttttg tggatatcgg tctaggtttt catgtggaat ttacttggca 60

agaagcttta cagttcatat ctgtaagaga ggcaaggttg actaggcaaa tagacgaata 120

cacacatctc atcgcaagca taaaagcaca gatcaagttg gtatgtgaag gtatccgcga 180

agtgctgcag ctgcctgcgg agaaagagtt atcgcccagg aatacgtggt agaatttggt 240

tctcaatgga gcaggggtg gtgttctgta aacgtggttc cgtttcaact cttgcagttg 300

aaattattgt ggtgccgaca gtattttaga gcagagaatg acgttcccct tcgtataaca 360

atctcttcga cgacaccacg tacaactcat actgatttct atgntttcat tatgttttca 420

tactgatttg c 431

<210> 41756
<211> 288
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-C6

<400> 41756

aagagatggc gtgtatagac atttctttta gagccttgtt ccttttatcg ctcgtggggg 60

tcatgcatgg tgagaaggca aagtcaaagg acaacgatgc ataagcgtcc ggacccgttg 120

gctccttcta tttcattaat tttatcgctt tttgttttgg catgactgat agcacgaacg 180

ctgttcagga tgcgtgcgca ttatcgttct tgttattttt gtagcagacg atcctcattc 240

ccaatggcga cttcctcgtc ggaccactca acttcacagg cccatgca 288

<210> 41757
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-C8

<400> 41757

acttcctgta ggcaccgttt cgtccaggcc agggccgttt ctagcagcag caggtagatt 60

tctggtgacg gtcactggaa aaggcggaca tgctgcaggg ccacaggatg ctgtggatcc 120

cattgttgcg gcatcctctg ccatcgtcag ccttcagctt cttgttgccc gcgaaattga 180

tcccctccag gctgcagtgg tctcggtcac gttcatgaaa ggaggtgatg cttacaacgt 240

cattccagag tcagcatcct tcggcgggac cttcaggagc ttgacaacag aaggcttttc 300

gtatctcatg aagaggatca aagagatcat agaaggtcat gccgncgtcc accgctgcac 360

cgncgncgtc gacttcatgc angagaagc 389

<210> 41758
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-C9

<400> 41758

gcggaaagac ggcgtacgac aacttgctta tcttcaagga cggcaagggc tgcggctcat 60

gctactagga gcgatgcatg gaaaaacctg catgctaggg cactgctgtc acggggttca 120

tcacaaacat gaactacgag cctatcgctc cctaccactt atgctagagc ggaatggcct 180

gtcggataca tggcaaactc gggtatacaa cgacaagctt atgcactgcg gcattacaga 240

caa 243

<210> 41759
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-D1

<400> 41759

aggaggcggt ggctgcttca agtgcggcga gcctggccac atggccaggg actgctccag 60

cggcggcggc ggctacggcg gtggcggcgg cggtggtggt ggcggctgct acaactgcgg 120

ccaggccggc cacatggcca gggactgccc aagcggtggc ggcggtggcg gagggaggtt 180

cggcggcggc gggggtggag gcgaccgctc ctgctacaac tgcggcgagg ccggccacat 240

cgcccgcgac tgtcccacgt gaggtgtgtc cgcgtccgtc cagccagcca gatcggatcg 300

gatcgctcca ccacctgctg gtcntgatgg cgccgccnct tctagatctc gcttaaaaaa 360

acatncccct ctcgctgtgt gtccgagt 388

<210> 41760
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D10

<400> 41760

cagtcgcgtg tctaggtttc ctctctcacc atagcgcccg ctctgtcgcc cttcgttcac 60

ctctccttcc tctcctccct gcctgccagg gagaggggaa gtcagaggca cggagtggcg 120

cagagcagac gcccgtgaac cattgtagct gtccctgtcg tcgtcatcgt cgtcgtcaac 180

gaatccgcac aaggaaaaga tggagaagaa gccgaccatc ctcatgaaca ggtacgagct 240

cgggcgcacg ctcgggcagg gcaccttcgc caaggtgtac cacggccgga acctcgcgtc 300

cggcgagagc gtggccatca aggtcatcga caaggagaag gtgatgcgcg tcggcatgat 360

cgaccagatc aagcgcgaga tctccgtcat g 391

<210> 41761
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D11

<400> 41761

caaggagtac cgtggcaaga ttgaggctga attgagcaac atttgtgatg gtatgctgaa 60

gttgatcgac tctcaccttg tgccttcctc cactgctgca gagtcgaagg tgttttacct 120

caagatgaag ggagattatc acaggtacct tgctgagttt aagactggtg ctgagaggaa 180

ggaagctgca gagagtacaa tgatagctta taaggcagct caagatattg cgttggcgga 240

actggcatct actcatccca taagacttgg acttgcactt aacttctcag ttttctatta 300

cgagattctg aactctccag acaaagcttg caaccttgcc aggcaggcgt ttgatgaggc 360

tatttctcag ttggatacgc ttggcga 387

<210> 41762
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D12

<400> 41762

gcgtgtggaa ctacgtcgtc acggcgcaca agcccaccag cgtcaggcac tcctgcgtag 60

gcaactttac cagccccaac cagctgaacc ttattatcgc gaaatgtacc cggatcgaaa 120

tccatttgct taccctcaa ggcctgcagc cgatgcttga tgtgcctata tatggaagaa 180

ttgcaacgat tgagctctta cggcctcata atgagactca tgactttctt ttcattgcta 240

cggagaggta caaattct 258

<210> 41763
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D2

<400> 41763

ggcgtcaaac aggaggactg caacgagatg ccgtggatcc agtccgtggc cttcatccgc 60

atgggcaagt cggccaccgt gatggacctc ctcaaccgga cgtccaacat caaggccttc 120

ggcaagtaca agtctgacta cgtgaaggac cccatcccga gggacgtgtg ggagaagatc 180

tacacctggc tcgccaagcc cggggccggg gtcatgatca tggaccccta cggcgccagg 240

atcagctcca tcccgcagga tgcgacgccg tttccgcacc ggcagggcgt gctgttcaac 300

atccagtacg tcagctactg gttcggcgag ggcgacggtg cggcgccgac gcagtggagc 360

agggacatgt acgcgttcat ggagccgtac gtcagcaaga accctatgca ggcgtacgcc 420

cactacag 428

<210> 41764
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D3

<400> 41764

cgcaactgct tcctcttgct ctgcctgctc cgccaatgcc cggcatgggt ggccctccac 60

ctccgatggg cggaatgggc atgcctccga tgggcgggat gggcatgccg ccgatgggcc 120

ctggtccgat gccagcattc gggatgccac caatgggaag ctactgagat gagatgtttt 180

tttgttgttg ttgcagagag cttagatgat gatttgatat gttcctgtgt aagcagaggc 240

ggaaacctca ttggagttgt agatggttac attttggaat taatattctt tatggtacca 300

ggaaattttt ggcgagtgaa tgattaggtt ggttgagcat gagctggtga aagcttgtac 360

catttgtata gtgtgatgaa atctttgtag acattt 396

<210> 41765
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D4

<400> 41765

agcgcacaag atcaaatacc tcgccgccaa caatggcctc caggtcctcc atcctgctcg 60

ccatggtgat gctggctgcg ctattcgttg ttggtttgtg caccaccccc ctcaccttcc 120

aggtcggcaa gggatccaag cctggccacc tgatcctcac ccccaatgtt gccaccatat 180

ccgacgtgga gatcaaagag cacggtggcg atgacttcta ctttacgctc aaggagggcc 240

cgactggcac ctggacgctc gacaccaagg ccccgctcaa gtacccccct tgcatccgct 300

ttgctgtcaa gtccggcggc taccgcatcg ccgacgacgt catccctgcc gatttcaagg 360

ccgacaccac ctataagacc acactcagca tctaatcaat ctctggtgat gaattagatt 420

t 421

<210> 41766
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D6

<400> 41766

cccacgcgtc cgccgtcgca tcccatccca ctaccaccca tctcgtcgtc cgccgattcg 60

atccggttct tccaacccag gggcagtgat ggcgacgaag aggagcgtgg gcaccctcgg 120

cgaggcggat ctgaaggtga agaaggtgtt cgtgcgcgcc gacctcaacg tcccgctcga 180

cgatgcccag aagatcaccg acgacacccg cattcgcgcc tccgtcccca ccatcaagtt 240

cctcctcgag aagggcgcca aggtcatcct cgccagccac ctgggtcgtc caaaaggtgt 300

caccccaaag tacagcttga agcctcttgt tccacgcttg tctgagctcc ttggagttga 360

agtcgtgatg gccaatgatt gcattggtga agaagttgag aagttggctg ccgctttgcc 420

agaaagtgga gttctgctcc taaagaatgt t 451

<210> 41767
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D7

<400> 41767

cgacaagatg gcgtgcacag acaatgcgat gagagccttg ttcctcctgg tcctcttctg 60

catcgtgcat ggtgagaagg aagagtcaaa gggcatcgat gcgaaagcgt ccgggcctgg 120

tgggttcttc gacatcacca agttgggcgc ctccggcaat ggcaagacag acagcacgaa 180

ggctgtgcag gaggcatggg catcggcgtg cggcggcact gggaagcaga caatcctcat 240

acccaagggc gacttccttg tcggacaact caacttcaca ggcccttgca agggcgacgt 300

gaccatccag gtggatggca atctgctggc gaccacggac ctaagccagt acaaggaaca 360

tggtaattgg atcgagattc tacgcgtgga 390

<210> 41768
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D8

<400> 41768

acagagattc cttcgatcca aagttccagc tatagcccaa gtaatgactg gttggctcaa 60

tgtccttcgg cttgcattga gcaacggatt ccaatggaat gcaatacaat atctcagtca 120

aaagcttacc ttatgatgca ttcttcttca gctttctgtg cccctgaaca tgatgcctgt 180

tctgaaactc aagctccaga cttatgttca ggttcagatg ttgttttcga ccccagccaa 240

tgttatccag ttgctagttt ttctgatctt gggatctcgg atacaccact aacatcaggt 300

ttcttgaatg atataacact agcaagtttg ttgaatgtca atttgaagga cctgtcacat 360

ctcaaccgac aggaacctac caatgataca tca 393

<210> 41769
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-D9

<400> 41769

gtcacaacac atacaggaaa agcaagcatg aatcatcgga ataatggctc ggcatgtgtg 60

tcctcgtcag ctcctcctgg ccgccatcgc ggtggcaccg ttcgcgggcg ccgcacgcgt 120

ggacgtcgtg gagggtaggt ccatggcatc cgccgatgca ccggaggcgg cggccgatgc 180

tcccgctcct agccccgact ccgcctcatc cccagactca tcgtcagagg cgccctccag 240

cagcagctcc ttcgactaga cgcaaaaacc tcttcattct ctggaataac taacagtata 300

tacgttgcac cctgatgata tagaaacatg tacgtgcatc agtgtatgga atgcgagtgg 360

canacacatg gaatgtgctt gcctaaatat gggtgatttc tttatttatt atatgtctct 420

ctcggtggtt tttatttttc 440

<210> 41770
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E1

<400> 41770

ccttgatggg actattcgag catgggattt gtttcgctat cgcaacttca ggacatttac 60

caccccttca cctaggcagt ttgtttcttt aaccgcagac cagagtggag aagtcatatg 120

tgctggaaca cttgattcgt ttgagatatt tgtttggtca atgaaaactg gtcgattgtt 180

ggatgtactc agtggtcatg aaggaccagt gcatggtcta atgttttcac caattaatgc 240

tattctggct tcatcatcat gggacaaaac tgttcgcctc tgggatgtct ttgagagcaa 300

gggtgcagtg gaaacttttc agcactcaca cgatgttctt actttagctt atcgacctga 360

tggaaggcag atagcatgca gtactttaga 390

<210> 41771
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-C4

<400> 41771

gccgaatcat ctgtcgctgc cgtcaccgtt accgaggtcg gggcgccatc ttcgttggga 60

ccgctggtcg ccgaggaggc cgatgccgcg atggaggagg ctgcggcggt cgcgaagagg 120

tggcccgggt ggcccggtgt cagcgtgttc cggctgtgtg gtgccagtgc tcaaggtcgg 180

aagcataatc tggcggaagg gcgagctcat taagcggctt gtcgaggaga ccaaggccag 240

ggtccgcatc ctcgagggcc ctgtcggcgc caccgagcgt atcgttttgg tctctggaaa 300

agaagatcca ggcttggagc taccttcagc catggatgct ctcatgagag ttttaaagct 360

tgtcactggg atagcacatg gtgct 385

<210> 41772
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-A7

<400> 41772

gtcagccgtt tcatctcctg atcagcctgc tagcttagtg aggaatgctt ctatgcgtgg 60

gatgcccata aacggttctt tcaggaaaga caactctaca gaaagcttcg atttggaatg 120

tcaagagaaa catctggaca ttgttccgac tagctcatcc cctgaaagga agttttcttt 180

tagttcttgc tcatcaaatg ggctcctttt gtccaaagag agctctaaac agcaaactag 240

catccacaac cttgacaagt gtaatggagg gcatttgcat gtatcagatg aaacattttc 300

tgaagctgct cctaagacac ataaatcagc agaggaccat gatgataga 349

<210> 41773
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-A8

<400> 41773

ccgtttgtct aagatatgct tgcaagatat cagcatattt gaccagattt catttgaaaa 60

atggtcttac cccttgccca cattgattaa agaggaagtt ttaccaaaga tatgtgattt 120

gcaagacaga ttcgaccagc tcaatgcact aaacattcag ctggaaactg aagttgcagt 180

cctcaaggat ggcatgaaag agctggatga agatcttgga acttcgcgat ctgagcttca 240

gaaaaaggtt tctgaacttg aacagttaga tcagaaattt tcatctgtga aggaaaaact 300

tagtattgct gttgcaaaag gtaaaggttt gatagtgcag cgtgacagcc ttaagcagtc 360

tttgctggag aagtctggtg agatcgagaa actcacacaa gaactgcagt taaaggaaac 420

attgctgaaa gagttggaag ccaaactc 448

<210> 41774
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B10

<400> 41774

caatgcccca cgaggaatct gtggcattat cagcggttgg ttctgcaatc aaagtaaaag 60

ctgctgccat tgttgtgttc acattctcag ggagagctgc gaggttagtt gccaagtata 120

ggccaacaat gccaatttta gcagttatct tcccacgtga aggatccgat ccatcaaagt 180

ggcgttctta tggcacaaca caggcaagac aatgtttcgc agtgagaggc gtgtaccctt 240

tgatggggag tactgatgag gccgaaactg gtgggctaac aaaggaagag tatgggataa 300

aacttgcgat gagctatggt cggtcggttg gcatagtgaa gcctttcgac aggttgataa 360

tctttgaaaa gattggtgat tct 383

<210> 41775
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B2

<400> 41775

caatgagcca tctcagcttg acatggacct gtacgctcag gggctggctc gctatgccgt 60

tagctgccag gataatggcc tggtgccaaa tgttgtgcct gaaatccttg ttgatggcac 120

tcatgacatt gatcgctggt cttacgttat tgagaccgaa catgctgcct gcatacaatg 180

tgctcaacga gcaccatgtg atcctggatg gtactctcct ggagctccaa catggagaca 240

tacaggctcc gactctaagt acgtgactca tgacgtgatt gctgatgaca c 291

<210> 41776
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B3

<400> 41776

cggacgcgtg gggagccgga tctcttggtc ggagaacctg cgaggaagga ctaaggagtc 60

gaagatgact gcggcggtgc tgtccgtgcg cacgacgacg acgtcgctgc tagcagcagt 120

catcctgtgc ctctgcatcg tctccctctc cccccgcggc gccgctgccg cgcgggtctc 180

ccccggcgcc agcccgatcg tggccacctg catgacgggc ccgtacccgg agctgtgcgt 240

gggggagctg ggacagcggc tgctggacgt gcagacgtcg atcgcgtccg cggcgcccga 300

ccagcgcgcg gccaggatcg cgggcgcccc ggtgcaggtg gacgtcaggg cgctggtggc 360

cgtggcgctt g 371

<210> 41777
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B4

<400> 41777

gctctcttga atggttagtg gcccatgtat ttattgattg tttgcttgta catatatgct 60

ccggcatccg gaccttagta tggcctaatc ctcactatgt atcatacata ggaagtgaat 120

gggagccaat ataattttgc tctagacaat tttagcttgc tttctgaacc cttaggtaag 180

ccttcaagat agtgaaaatg ttaagtgagt agcttacgag ctaaataatg gctagatatt 240

ctcggtaaaa aaaaaaaaaa aaaaaaaaaa acaaacaaaa aaaaaaataa agaaaaaaaa 300

aaaatgacat tt 312

<210> 41778
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B5

<400> 41778

cggacgcgtg ggcggacgcg tggtaattag gttccgtgaa gcaacccttg ttagggatgg 60

tgataagaaa atacgttatg ctgttcgcaa agaagtggca ctcatgatgc agcgtcggaa 120

ggggcaattt gctggaagtt ccattttgga cggagaatct ccagctcctg gatgtgatcc 180

tggttctcag ggctcaggcc tagattttgc atctcgataa tcaatgtgcc agaactgtgg 240

tactagtgaa aaaatgaccc cagcaatgcg tactggtcca gcgggtccaa ggactttgtg 300

caatgcttgt ggattgatgt gcgcaaacaa gggtaccctg ataagttgcc ccatggcaaa 360

agttgaatct cctgcggttg caactgagca gggaacaagt gacaacaaag cccttgcaac 420

actgaataat aa 432

<210> 41779
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B6

<400> 41779

ctcgccggcg cggtcgctgc gcgacgagta caacatgccc gacaacgccc tccgctgcgg 60

caaggtcgtg gggctgccgc tgccgccatc ctacgccccc gcgcgctaaa gacgacgaag 120

gcgccgtttt cacctcgtgt tctgaccatc cagtctaact aatccattcc tgtgctgctc 180

ggcgaaataa aatcatcaaa aagaacaaag acgaaggaag cctagggaag ggagaaggga 240

cgttgggtgg gggtgagcca aatgagaacg cacggatata tctattgatg taatcttgag 300

atgccctctc aaatcactgt aatggggttt aaaaaacaat cattgtaatg ggagttatat 360

atacttttat cttaacattt atttacacca gcaagtcctg gtgt 404

<210> 41780
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B7

<400> 41780

cgttcgttcc tcaagtgatc ttaatcgtcg agaagttacc agctagcgga gatcatcggc 60

aatgtcgaac atggggcaat ccttccaggc cggcaaggcg caggcccagg gcgagtgcca 120

ggcggagcgc gcagcgcagt gcgttaggga cggcgccggc gccaccgcct gcgccgtgac 180

cgacaccgcc ggagccgcgg ccgacagcgc gcagctgcag gagcaccgcg ccgccggcac 240

cgttcagcag gctgctgagc aggtggcgca gacggcggcg ggcgcggcgg cagccgtcaa 300

ggacacggtg gcgggcgcgg cggcggccgt caaggacacg gtggcgggcg cggcggcagg 360

cgccaatgac gcggtgaccg gcggccactg accgactcac gcgcgtgaac cgga 414

<210> 41781
<211> 325

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B9

<400> 41781

cttgctcaaa aaaaaaaaaa aattaatatt taaaaaaaaa acaaaaaaaa aacacggaag 60

gggccaaaaa acaacgtacc gagagccgac aaatggcaac ggaggcaaaa gaacatctgg 120

aaggccacgc cggcaacgta ctgtgacgag gcatcggcgg ccgcgaatgg gatgagctgc 180

tgctggggcg aagtactttg gccgtactac ctgtaataca tccatgacct gcagctacag 240

atccggcaga agacccataa cctcaaccga ctcgaggtcc accttaacga cctgaacttc 300

agagttagaa tgctcaggga tgatt 325

<210> 41782
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-C1

<400> 41782

catctcttac ctgggattgt tctattcact atccggtggt ggaatccaca aacatttgct 60

gccatgcacc cagaaggaag agatgctaga gtcacatggc catatgtgga ggacaaatca 120

tatctgtgga catggctttt ttttgttccg ctagctgctt acaccctgtg gcaacttatg 180

tatttcctca tagttaatgt cctgcgtcga cagaggttgt taagggaccc tgaagtcatg 240

acatcctaca gggagctctc gaagaaagca cagaaagcga acaacatctg gtggaggctg 300

agcggactgc tgggtgaccg gaaccggcag gtcatgtaca tactgctcca ggcgctgttc 360

acagtggcaa caatggcact 380

<210> 41783
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-C10

<400> 41783

ggcacgggca agaagaagtt cgtgcgcatg ctcatgagcg ccgaggagaa gttgccaggc 60

aaggtgcgcg ccgtggtcaa gttcaacgcg gcgctggcgc accacatcat ggccggcgcc 120

gacgtgctcg ccgtcaccag ccgcttcgag ccctgcggcc tcatccagct gcaggggatg 180

cgatacggaa cgccctgcgc ctgcgcgtcc accggtggac tcgtcgacac catcatcgaa 240

ggcaagaccg ggttccacat gggccgcctc agcgtcgact gtaacgtcgt ggagccggcg 300

gacgtcaaga aggtggccac cacattgcag cgcgccatca aggtggtcgg cacgccggcg 360

tacgaggaga tggtgaggaa ctgcatgatc cangatc 397

<210> 41784
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-C2

<400> 41784

cgccgtcacc atccgcgcca ccatgggcat ggcggcgcag gacatgcaga actgcgacga 60

gcagttcagg cagatcggcg agaagaaccc catggagcag ttcgacgcgt cgctcgtcga 120

gatgtccgag aactgccgct cgctctccaa catgatctga tcgatctcct tctccacgga 180

cgacaacaga gagccgggcg ttttgggccc tcgcatcgtt tgtcgccgct gctaacgttc 240

gcatgcccat gcccgcgagc gcgctctcgc gcgacaataa ctgatgagtt aagtttgttt 300

tgctttgacc atctcacatc gttatttcct gtagagatgc gttaatttgg tctcggaaac 360

ggngaggcga attgaggtgg aatatttata attcaagaaa cacaggtttg gttctagaa 419

<210> 41785
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-C3

<400> 41785

gtttggcgtt taatttggac tggcgaataa aatgcaggcc cccctgctgc tgctgcacgt 60

ccgtcaaata gattggtagg gagcccagag ggtgatggga atggcgaagg agcagcactt 120

cgtgcttgtt catggcgaag ggcatggggc ctggtgctgg ttcaagctcc gctggctcct 180

cgagggcgct ggccaccgtg tcacgtgcgt tgacctggcc ggaggcggcg tcgatcctac 240

cgaccccaac accatccggt ccttcaagca gtacgacaag ccgctcatag acctcatctt 300

caacttgcca gacggagaga aggtgattct gatcggacat ggcgcttgan ggctgagtgt 360

gatccatgca atgcatgaaa ttgntgacag gatcggtcaa gcatttttcg tggccgcaca 420

atgc 424

<210> 41786
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-016-Q1-K1-F12

<400> 41786

cgcggcgccg cgcgggagcc cccanaaatg ccgaggagga ggcagcgtac accttctgcg 60

ctcgctgcgc cggcctccca atcgatcgag gcggcgcaga gcagaggaaa accccgagcc 120

gcaaccctcc tcaccgcaca gcaactcgag tcctcgttct cttccccatc ctcctcctcg 180

tcaactccag tcgtcttcag cccttcacca caatcaggcc cacctccgac caccacattt 240

cttctcatcc aaccgccccg taggatcaca gagaaggggg atggcgagcg gcggggcggt 300

gagggatgtg ggctcgcctg cggagctgga ggcggccgtg gccggggcgc gggcgg 356

<210> 41787
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-F9

<400> 41787

gaccactctc atggtcatgg acacgggcat gaggcatcat catcgtcatc ttcacattaa 60

gttgcttact ggctgcggac gatgcttggc atgttccaac agctaaagtt tgagttaata 120

aattctatca ccctgcatgg gactcatgtt gtttgcaact ggtttagcac gaactggtct 180

tgttactatt gtgctaatgt atttgtttcg aagtttcagt taatatgctg tggaaaagaa 240

tctggtgcac gttgatgttc tttatgatct gttgttcagt acattgctct gcttcgttgc 300

tacgttaaga atatatatat actaacatca gaaaaatgta tgtattttat gggcttaata 360

gattcagaac tgggaag 377

<210> 41788
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-016-Q1-K1-G10

<400> 41788

gcgatggctg gagcccgggc actgctcatc gtcctcgcgg ctgccgtcgc ggtcctgggc 60

gcgcggccgg cgtctgcagg cgggggagcc gcggcggtgg cggacatctg catgaagact 120

ccgtcccccg acctgtgcac caggacggcg gggaagcacg ccaacaagta caaggtggtg 180

gacgcggtga cggtgctaga gatgcaggtg gacgcgttca agaagcgcgt gaaggcggcg 240

cggaggctcg ccaaggagga ggtcaagacg gccgcgacgc ccgaggcgcg gagggcgctg 300

aacctctgca agacctacta cctggacgcc gncgacaacc tcggcgcctg caagcgcgcc 360

atcggcttcc gcgacgccgt caccatccgc gccacgatga gcat 404

<210> 41789
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-G11

<400> 41789

cggacgcgtg gggtcggagc agagagatac ttcctcgcct ccatcccatc ccgccgccgc 60

cgtctctacg gtcgctaata agcagccgca tccagggatg gagatgaaga agatcgcctg 120

cgccgtcctc atcgccgcct cggccaccgt ggcgctggcc gcggaggcgc cggctccgtc 180

tcccaccagc ggctcctccg cggtcgcacc cgccatcgtc ggggccgccg tggcctcctt 240

cttcgcgtac tacattcact gagccgccgg acgaggagcc ggagccggag ggaagagacc 300

aaggtggggg gagagacttg gctgcgctgc gctgctctgc tgctcccgcg cattcccgat 360

gcgtgggcgt gctctgattg ggc 383

<210> 41790
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-016-Q1-K1-G12

<400> 41790

acaatccttg cacccctccc ctccgtcttc ccaccacatc cggccagccc aacgaaaatg 60

tcgcgcgcca cagctgcggt cctcttctac atcctcgccg tcgctgccct cagcgcggcc 120

gaggcaccgg cagagtcacc gaaggcaggc agtcctgcca aggcaccggc cgagtcaccg 180

aaggcaggca gtcctgcagc tcctgccaag gcacccgagt ctgctgccac gagaactgcc 240

cccgctaagg cacctcaagc cgcctccacc cccgccgctg ccgctgcccc atcgtcgtcg 300

tcgtctaaga agtctggtcc agctgccgcg ccgaccaccg ccgnctgtac accgtcttct 360

tccacggacg angagttgag ccct 384

<210> 41791
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-G9

<400> 41791

cccacgcgtc cgcgcgtgcg ctcgccctgt gcctctcgcg tgcggaagct aggcaaacgg 60

ccggcgccct agctaggtgc ccaggccatc gtcggaccct tcgccaagcc atcgtcgggg 120

tctcggggat tagcacccgc acccacaaga tggccacacc gaacggtcct tctgcttctc 180

cgatggtgta ccctgtctac ctttctgggg tatttcccca gcaaggcggg gatgatcagg 240

ctcaacgtcc atggatatat gccatacaac agaaccagtt agcagcggcg atgggaatgg 300

gttgctatgc tacaaccaca ctcattcccc tcacttacaa tatcccaaca gaaagcattg 360

gtgctcctgc tggtgaagag aatgtacagg atgctaggca gcaaaat 407

<210> 41792
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-H11

<400> 41792

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgcc cacgcgtccg 60

ctccttcctc tcaatggcgg cgccccagca atccgctccc ctgtccgggt cggcgcccaa 120

gaggctcagg gcgatggcca cagacgccgc tgcagtgccg aatcccccag cctctagtgg 180

ctgccccgcg atgaaggcgg agttcgccaa gcacgccgag tacctcaaca ccctgaatga 240

caagagagaa aggcttgtga aagctagtcg ggatattaca atgaacagca aaaaggtcat 300

ctttcaggtc cacagaatca cgaaagttaa cagggacgaa gttctctcga aggcagaaaa 360

tgatcttgct gcagttgtta atcaatacat tggcaaacta gtaaaagaat ta 412

<210> 41793
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-016-Q1-K1-H9

<400> 41793

ggccaccatg ggtttgcgtg ggggaggaga atcggcggct cgctggccag gggagcacga 60

ctggaccccg gcgaggccaa ggttgatgag gacatcacta tgactacgac tacaccagca 120

gcacctccac atcaagcgcc acttccttca ttagctgggc caatcactcg ggcccgtgcc 180

agagatctta acttcgtcat gctactgaag aatgagggcc cagaagaata gacgaccaac 240

ccaactgcgg cccatagtgg acgacctang gatggccgcc cctaggggtt gcgccccctc 300

tctatttatc aaggagctac gcctcatttg ttcttggagt tttgttttac gttagctnta 360

gctactctcg aacacgcgca aat 383

<210> 41794
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-A1

<400> 41794

agcctgctct gcactgccaa ggtcccatgc accggcgtca ccatggatga cgtcaacggc 60

gagtatagcg gcaccaacaa caagaccatg gctatatgca cgaacgccaa gggcagcacc 120

aagggttgcc tcaaggagct tgcatgcttc tagaccctcc gtcgactgac ccatctctct 180

agttataatt tttctctcgt ccttgcattg catattagtt gctatccatt ggtaacgcac 240

aacagtaaaa cgacaaacat ccaacagcta tattatgttc gacggtgtaa caccctgaat 300

tttagggtat aaaatttctt ctctaaatgc aaaccaaatt caggtgttaa aaaaaaaaaa 360

ccaanaac 368

<210> 41795
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-A10

<400> 41795

gcgagaaaca aggatggcgt taaggttttt tgaaaatgat atactgtcca agatcgaagc 60

agcaatggga cccatgggct ggaacgttca gaagcgcaac tataagctga agctgcaagg 120

ggagaaccct ggaacgaaag gtgagctggc catcgcaaca gaggttatcg atggtcacgc 180

cttgcatgta catgcgtgag ctgcgcaagt tcaacagtga cacccttgaa taccacaagt 240

gataccacat catttaacat gggctgaacg acgtgatg 278

<210> 41796
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-A11

<400> 41796

gtcgccacct cggagcaatc aggtggtgaa gctgaggcca ccttagaaac aggtggtgaa 60

gctgcggcca ccttggagca aacaggtggc gaaaccgaag agccgaccat tgtagcacct 120

gctaatgaat atacagtgca ggaggctgct cctcagcaga agtgtgcaaa gatacacgac 180

ttttgcctag ggataccttt tggtggactt ttactctcca tgggccttat tggatttctc 240

ttctggagga gccctgcgag tcttaccttt ggtgttgcac ctggccttgc catattggcc 300

ctggctgtac ttagcctcaa tgtct 325

<210> 41797
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-A2

<400> 41797

cggacgcgtg ggtttttttt ttttgggggа aaatctggat cttttatatt ataaataggt 60

aaattacggc gatgatgagg ggcaaatgag gtaggcaaca gcgaacctaa ccaactgaag 120

aaaaaactct acaaatccac ctacacccgc agggctttct caacttcatc accaagacat 180

agattaggga gggtacacat tcatcaccca tgttttattt ccgacaatca aatcccaacg 240

agcatagcac cgaccgaact gacacatcgc atgcataatg tgttcatccc tctctaggag 300

gggggcaaca ccgttctaca actaaaaaac ccaaaccaac tacaaatcca ccgacccaga 360

gttgtcagtt gacccattat tcctncgnct gatcaacatt acacac 406

<210> 41798
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-A3

<400> 41798

attctacgcg tggataacct ggtcatcacc ggcaagggaa accttgacgg gcagggccca 60

gccgtgtgga gcaagaactc ctgcaccaag aagtatgact gcaagatcct tcccaactcg 120

ctggtgatgg acttcgtgaa caacggggag gtgtccgggg tcacgctgct caactccaag 180

ttcttccaca tgaacatgta ccagtgcaag aacatgctga tcaaggacgt gaccgtgacg 240

gcgcccgggg acagccccaa cacggatggc atccacatgg gcgactcatc cgggatcacc 300

atcaccaaca ccgtcattgg cgtcggcgac gactgcatct ncatcggccc tgggacctnc 360

aaggtgaaca tcactggcg 379

<210> 41799
<211> 362
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-A4

<400> 41799

cggacgcgtg ggcccgggtg caacggcgtc ttggtggaca gcatcacctg cggccccggg 60

cagggcatca gcgtcggctg cctaggccgc tacaaggacg agaaggacgt gagcgacatc 120

acggtgcgga actgcgtgct caagaacacc accaacggcg tgcgcatcaa gtcgtacgtg 180

gacgccgagt ccgtgctgac ggcctnccat ctcaccttcg agaacatcag gatggaggag 240

gtggccaacc ccatcgtcat cgaccagtac ttctgcccgc agaaggtatg ccctggcaag 300

cggagcaact cctcgcatgt ctccgtcaag gacgtcacgt tccgcaacat caccggcacg 360

tc 362

<210> 41800
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-A5

<400> 41800

gcggcgagcg aattagaaga tgctggacaa gctgtgggac gacgtggtgg ccgggcctcg 60

cccggagacg ggcctcgaga agctccgcaa ggccaccacc gcccgcccgc tcgtcatcaa 120

caaagacgcg gacggcggca gctacaagcg ggcgcagtcg atgccgtcga ccccgacgac 180

gccggtgacg ccgtcgtcgt cgtcgtcgtc gacgacgccg cgcggcgccg gcaacgtgtg 240

gcgcagcgtc ttccacccgg ggagcaacct ggccaccaag ggcatgggcg cc 292

<210> 41801
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-A9

<400> 41801

ggggatcgga gcgcgggcga caagatgcca cgcggcggca agcccgcggc ttcgtcgaag 60

ccgaacccgt tcgactcgga ctcggactcg gagtccagca ataagccggc gaacaagtcc 120

ggggcgtcgt cgtaccaagc ccccgccgac gccaagaagc ggtacaagga cgggttccgg 180

gactcgggcg ggctggaaaa ccagtcggtg caagagctgg agcactacgc ggcgtacaag 240

gccgaggaga cgacggacgc gctcgccggc tgcctgcgca ttgccgagga catcaggcag 300

gacgccagcg acacgctgat cac 323

<210> 41802
<211> 306
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-016-Q1-K1-B11

<400> 41802

cggacgcgtg ggtccacatg aacatgtacc ggtgcaagga catgctgatc aaggacgtga 60

ccgtgacggc gcccggggac agccccaaca cggatggcat ccacatgggc gactcatccg 120

ggatcacgat caccaacacc gtcattggcg tcggtgacga ctgcatctcc atcggccccg 180

ggacctccaa ggtgaacatc accggcgtga cctgcggccc tggccacggc atcagcatcg 240

gcagcctang gcggtacaag gacgagaagg acgtcacgga catcaacgtc aaggattgca 300

ctctta 306

<210> 41803
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-016-Q1-K1-B12

<400> 41803

ggcctgcagc gtcacctgcg ccaaggagaa gaacccgcgc ctcagcgaga actgcaagag 60

gtcctgcacc cctcctcctt cttgaagcga agccccttga aatgaatgaa ccatgcatgc 120

atgcatgtat gcatgcgccg gggtgacgtg gcgttcagct caggcgctga gcgagtctat 180

acgtacgtcg tcaccggctg gccacgcatg cgataaccat ctgatatgga cggaactata 240

tattgtattc ctattaatct ggcattttct aagctaattg ttttttttcc aaatataccg 300

tcgatggaac tccaaatgta atgtcacgca natgtgtgtt tttcatcgat tgaatggata 360

ataataaaaa ggcatgctgg caggtactac t 391

<210> 41804
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-B9

<400> 41804

cgaactgctc aaggacatcg gttccggtaa cttcggggtg gcgcggctga tgcggaacaa 60

ggacaccaag gagctcgtcg ctatgaagta catcccgagg gggctcaaga ttgacgagaa 120

tgtggcgagg gagatcataa accaccgctc gttgcggcac cccaacatca tccgcttcaa 180

ggaggtcgtg ctcacgccca cgcacctcgc tatcgtcatg gagtacgccg ccggcggcga 240

gcttttcgac aggatctgca gcgccgggag gttcagcgag gacgaggcga ggtatttctt 300

ccagcagctt atctgcggtg tcagctactg ccacttcatg caaa 344

<210> 41805
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-C10

<400> 41805

gctctctaca aggaggcggc ttgcgcgggg ggcatcgtgc aatggcgcgg cggtgcccgt 60

gcaggctgct gctagccgtg gcggcggcgg ccgtgctcgt ggccgcggca gcgcaggcgc 120

aggagacgtg ctcggggacc gtccccgcgc cgccgcgccg cggggcgcgg gtgtccgtgg 180

ccagcttcgg cggcgcgggc gacggacgga cgctcaacac ggcggcgttc gcgcgcgccg 240

tcgccagcat cgagcgccgc gccgcgccgg gcggggcgga gctctacgtg ccgcccgggg 300

tg 302

<210> 41806
<211> 390
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-C11

<400> 41806

gtcgtcatta attcttcgaa ggacagggtt cccaacatca agttcaatgt tgcgaaagga 60

ctacagtcac ttgtaccgat cctcgaccaa tctgtggtgg agaagaccgt gaaaccgtgc 120

ctcgttgagc tcagcgagga ccctgacgtc gacgtaaggt actacgcaaa ccaggcactg 180

caggcgtgcg accagatgat ggtgtcaagc taactagcct ttgtgtcaag tatttagaga 240

gttcgatcga tgctccatag tccaattttg gattacctgt aatttggcct ttagatttga 300

agagttgttt gtgtctagcc tcggtaacag ataaaaacgg gacggcctga tccccttgtt 360

cgtttgtgtt aattaatgtt gtaattgagc 390

<210> 41807
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-C12

<400> 41807

cggacgcgtg ggcaagaacc tactcgcctt ctacattgac caacaactaa gcctccgtga 60

ccgccacatc tattaggtgc agccatgggt gcctgtgcaa cgaagcctaa gacgcttgag 120

gggaaagccc cagctgaggc caccatctcc acacccaagg ttgcacctga gaccactgcc 180

atccacattg aggttgcggc gaaacaggca gtagttgaga aggtggagga ggacaaggag 240

gaggcactaa cagtggcggc gaaacaagag ccagcagcca ccatcgagcc tcaacagatt 300

gctggtgagg tgaccacttc ggaagtggcg gtcgtcgttg tcgagcctga gaacaa 356

<210> 41808
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-C9

<400> 41808

ctgagttcaa gaaggttggg agcttccttg gtcgcttcaa gtcgatacct agcattgttg 60

agcttgacag cttgaaggtt tccggtgatg tttggttcgg ttctggaatt gtactgaagg 120

ggaaagtgac catcactgca aaacctggcg tcaagctaga aatcccagac ggagcagtga 180

ttgggaataa ggatatcagt ggccctgagg acctttagat aagaatcagc gaatcagcaa 240

ggaggctcac ttcgccaagt ggcggatcat ttttcgtgtt ttttttcctgt atattcaaac 300

aggttccatg atattatgga gaatattaat tgccagtata atccagaaat tttacatgta 360

ttttactttg agggaaatgt tttacacac 389

<210> 41809
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-D10

<400> 41809

aaaacatggc tgtgaatgtg agaaccatgt ggtcgtcgat gcgggcacag gttgcgatgg 60

ttgtggcgtt ggtgttcttg gtgagcggcg catggtgcgg tcctcccaaa gtccccccag 120

gcaagaacat cacggccacc tatggcaagg actggctgga cgctaaagcg acatggtatg 180

gcaagccgac gggtgccggt cccgacgata acggtggcgg ctgcgggtac aaggacgtga 240

acaagccccc cttcaatagc atgggcgcat gcggcaacat ccccatcttc aaggatggtc 300

tgggtttggg gtcctgcttc gagatcaagt gcgat 335

<210> 41810
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-D11

<400> 41810

cggacgcgtg ggtgcagatc accgtcgtct tcaaccactt cggcaggggc ctggtgcagc 60

ggatgccaag gtgccgctgg ggcttcttcc acgttgtcaa caacgactac acgcactggc 120

tcatgtacgc cattggcggc ggcgacgcgc caaccatcat cagccagggc aaccgctaca 180

tagcaccacc aaacatcggc gccaaagtga tcaccaagca ctacgcggaa gaaggcgtgt 240

ggaagaactg ggtgtggcac acggaggacg acctgttcat gaacggcgcc atcttcaata 300

cgtccggcgg cgcccccaag caggtcgaca ccaacgagtg ggtgaagccc aagccaggaa 360

cctacgttac a 371

<210> 41811
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-D9

<400> 41811

aagctggtcc tcaccaacat ggcggagaca ccacacacgg acgccgtacg cgtggacatc 60

gaggagggta ggaccatggc atacgacaat acaccgaaag cgcccttcga tgctaccact 120

cctaacccca actccgcctc atacccatac tcatcattag atgcgcccta caacagcagc 180

ttctacgact agacacaaaa acctcttcat tctctggaat aactaacagg atatacgttg 240

caccctgatg atatacaaac a 261

<210> 41812
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-E11

<400> 41812

gagagagaga gacgcatgcc cgccggcgtc gatcgaggag ggaggaacca gagacccggc 60

ggcggcgacg atggctccgc gcagctcatc ggcggcgacg tgcctgtgcc tcgctctcgc 120

cgcggccacg ctggcgctgg cccacggtgc gcaaggagga ggaccatcgg catcggcggc 180

ggacctggac aaggtcacgg ccgagacctt cttcgacatc gagatcgacg gcaagcctgc 240

aggccggatc gtgctgggac tgtttgggga caccgttcct aaaactgcag agaactttcg 300

agcactttgc acaagggaga aaggaattgc caagtccggc aagcctctgt ggtacaaggg 360

gtcgacgttc cacaggatca tgcccggggt catgat 396

<210> 41813
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-016-Q1-K1-E12

<400> 41813

gcaagaccac ctangaggcc tctctctttc tctccccagc cacccccgta gcgagaggga 60

gggcggaaga ggatgagcgc gtccaggttc ataaagtgcg tcacggtcgg ggacggcgcc 120

gtcggcaaga cctgcatgct catctcctac acctccaaca ccttccccac cgactatgtt 180

ccgacagtgt ttgataactt cagtgccaac gttgtggttg atggtaacac tgtcaacctc 240

ggcctctggg acactgcagg tcaagaggat tacaacagac tgagaccact gagctatcgt 300

ggagctgatg tttttcttct ggctttctca ctgatcagta aggccagcta tgagaatgtt 360

tcgaaaaagt ggatacctga ac 382

<210> 41814
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-E9

<400> 41814

gcgaccgagc cgcggatttc acccctgtct ttccttctcc ccgtgtccag gccctggtgc 60

ccgcgcgttc ccgtgcggca actggccgcc gccgccgcac tacgccaggt gcccaattcc 120

tcgtcgggtc ctccgccggc gacgagcacc caccagaaaa ctggagtgga ctctacatgt 180

caagacagta tggcgccagg aagcaaggcg gagaggaaag cagcactaga cgctggcgca 240

tggatgttca atgtcgtcac atccgttggt atcatcatgg tcaacaaagc cttaatggcg 300

acgcatggtt ttagtttcgc tacaacgttg accggacttc atttcgcgat gacgaccttg 360

atgacattag taatgaaatg gctgggatat att 393

<210> 41815
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-F10

<400> 41815

cggacgcgtg ggtttttcta aaattggatc ttcgatgcta tttttcaaat ggtatagagc 60

taattttccc aactcagaac tgaagcacgc ttctacttcc tttctcggct ctcacaacca 120

tttcccctcc cctcgcttcc aactattgga actgaagcat ataggctctg aggagaagca 180

agactgaata aggtcaatat cttgggctaa caaggctgct attgttggct ctgaggagaa 240

gcatcatatt ctcccatgat tactcttggt gggttgtctg catctcattt tgctctgaga 300

aagaaaattt tctctctggt tcacttgacc gtactgttct cttatgggat caacgggctg 360

aaaaatcaca ggtttgacca tataatatat a 391

<210> 41816
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-016-Q1-K1-A12

<400> 41816

ccggcccgac ccacgccgac ggaagnnnca gatgttccat tcgncccttc ggacaggcct 60

tgggaaacca tattcagcgg gtcgtctcat gttctcccgc ctctcacaaa actatgctct 120

gcattcttgt catcgctgct ggagaaacgg cctgttgcaa acgagtgagc cgccctagaa 180

cattgtcctc tcatacaacg gtaggtatac tcgccagttg cagaatggaa atgcggaagg 240

aaatccgtcc gtgacgatgc atatgcccac ttgaagagtt cagagatgct gggtgatgcc 300

atctgaggtt ggttatggtt atacagatat cacacggccc acgaggatca ttttgcagcg 360

atactcgacg gccaacctac tgatcgcagc aattttgttt tcttctccgc ttgacatgta 420

atcctgacaa gtaaactaga aaatc 445

<210> 41817
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G6

<400> 41817

cggactcgtg gggacaaagt atacatttta tagtttaggt ttgataatgg atccaaaata 60

tgttagccta tgcatcttcg tattacttgt attgcatgga gatactactt tggcagaaac 120

ttgcagggag tttgctaaat ggcatccatt ctgctttagt gcaatgtgca aggcaaattg 180

ctttatagaa ggaaaaagct ccgatggttc ctatgcaaag ggatatagat gtgattcaca 240

tggatttcat tctatgtgta tttgcctttt gtgtaaaagt tagttatctt aagacaagcg 300

gggatatatt ctatgttcat atccgtcatt tagggtgttg ttcaaataat tttatgggat 360

aataattaac tagtttgttt acttctagat atatgtaata ctacttaaat aatccttatt 420

t 421

<210> 41818
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G7

<400> 41818

ctcactgacg cgcgctcgac gcgggtttct gtctgcgccg acttgctccg agctacggaa 60

gacgagctct aggtgatgta cgaggtgctg aagcagccga ccgacggcgc cacggccgac 120

accctcggct cgtccttcgc gatcaatgtc gtacctgctc gtacgacctc gtagcgccgt 180

catagactgt ccgatcggac agagcagcta ctagcagccg tatgccgacg gcgacaccta 240

ggaggaagac gatgaggagt ggaagctcat gcgcatgctc accgaatgac gacgtgatca 300

agagctatcc gct 313

<210> 41819
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G8

<400> 41819

accacgcgtc cgtccacgcg tgcgcaacat caacaacaag acgggcttca ccaagcggac 60

cgactacggc aagggcgagc gagaggcgca gtggtccacg gcacacagga cgctgcacgg 120

tctcaaccag gccaccgtca gctgcgacct cttcggtgac aaccagggct accgcgagct 180

gtcagagctc gccgagcatg cagccaatcg cgccgagggg gccaggctca gggagctgca 240

cacgctgaaa ggacacgtcg agtacgtcgg ctagctcaag ggcctatgca ttgacaccat 300

tcagcagagc tacaccgcgt atactcgact cagaagacta gctgatatgt tgtgcaaact 360

tattcaatgc acacacatct atata 385

<210> 41820
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G9

<400> 41820

gtcctgggtc gcatttatca aggataagtt ccaccacatt ttgttgctct tttccagcga 60

tgggtattct taaaggtggt acccactttt ggtattaaaa atttttgaa aaaaaaggtc 120

ctgaagaata aacattttgg tcttattgcc ttggttttat 160

<210> 41821
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-H1

<400> 41821

gagaggagga ggggaggtgc gccaccggta agcggaaacc tcgggtgtcg tcgaccaacc 60

tcgtcgatcc ggttgcgacg cggtgtgcta gaataactac cgaccatggt ggaggaggag 120

atcaccgagg gcttgaagaa cctcaccgtc accggagacg cggcggcttc gggcggagaa 180

gggcagagga ggggcggcgg catcagcagc aaccgcatcc aggtgtccaa caccaagaag 240

cccctcttct tctacgtaaa cctcgccaag aggtatatgc agcagcacgg cgatgtggag 300

ctatccgctc ttggaatggc catagcgaca gttgtgaccg tggcagaaat tctgaagaat 360

aatggatttg ctggtgaaaa gaagatcagg acatctactg ttgacataaa cgacgaatca 420

cgagggcg 428

<210> 41822
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-H11

<400> 41822

cccacgcgtc cgcagcatgg tcgccgtcgt cctggctgcc atcgccacaa taccgctggg 60

ggaggaagcc attccggggc cactgccgga ccattgaacc accgcaaaaa attccaaggc 120

cacattggac gccaaaaccc ggaaggcttt caacggcttg ttggccgccg ttccgg 176

<210> 41823
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-H12

<400> 41823

cggacgcgtg ggcggacgcg tgggtgctac acaaaataaa ggtggtttga gggaaagcgt 60

gtgggtaact cggcttttgc caaaagcatc agtagaattg atggaggcaa caccatgcaa 120

tgtagagaat gctgttagtc cacaggctgt gggtgacaag ttgtgttgtc cacctcttca 180

gaattttaat ttggagaagg aactaaataa tatacaatac ttcactggaa gaggaagcag 240

cgatggtgta acaagtagta aatgtccagc aacgcctcca gaggaaccta agcaatctga 300

aacaatggct tctgtttttg caaagagatt ggatgcactt agacatgcaa acacctctgc 360

agtaagcttg gctatcgcgt gtgagcatgg aagtcccaaa ctgagaaacc acaaaac 417

<210> 41824
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-H2

<400> 41824

aagagatcat gcaactttat aaagaggaaa agaatatgtt gtatgcacag ttcaaaaagc 60

tgacatgtcg tgttagtttt actatggatg catggacatc tatacaaaac aaatcgtact 120

tatgtgtcac agcacattgg attgatgata attggaacat gcaaaaaagg attatcaatt 180

ttatgcatgt agaagacagc catgatggga taaaattgag tgatattttt tttgtaaatg 240

tgctcaattg gaaccttgat aagaaaatgt ttgctctttc tttggataat gctgtggcaa 300

acaaggttgc agttgatata gtgatagata atgctaaaga cttgctcata tgtggtggaa 360

agttctttca tgttagatgt gcaaatcata tattgaacct ttgtgctaaa gatggcttan 420

cagtaatgag aaatgc 436

<210> 41825
<211> 141
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-H5

<400> 41825

tcgcggactc gtgggcggac tcgtgggttc tgtgccaacg ttgtacntga tagcaacggt 60

gtggttcttt tacctacgcg tggtgctaca caaaatacat accatccaca ttaacgacat 120

caaccactgc tggaacaacc t 141

<210> 41826
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-H6

<400> 41826

gctggttttg catatttgaa tcttcaggaa gcatgtccac cattatattc aattattggg 60

ctcagggagc atattaagaa acggccacca ttggctacct ctgagaaagt tcaacaattt 120

gtgagggcac gggggagaga atcaatggtt gcaggatttt atcacgaagg ctatgaagat 180

ccattgctta tgctgatgag aaggagaact gttcatgctg gactagttgt gaagggtgag 240

gaaggtgcgc tttccttgac aaccaaggaa agatcagccc atgcatcaaa aggactccct 300

gttaaccact gttcanggtt tcggacacca agcggcataa atttctctga gactgatggt 360

attcctagag aaagcttcan ggtcattgtg aatgcccagg aacttggttn tgaatccact 420

gaaactccaa gaactg 436

<210> 41827
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-H7

<400> 41827

agcgccttcg ccaccggcgg ctacgcgtgt catccaacgc gtgacgcagt ggaaccttga 60

cttcactaaa cacagcgagc agggtgacag gtaccgtgaa ttggcacatc gggttgatga 120

tgcccttgga ttcatgggtg cagctgggct aacagtggac cagcctttga cgacgatgat 180

cgagttctgg acctcacatg agtgcctcct cctaccttac gagcaagcct taacccggca 240

agactccacc accggtcttt tctacgactg ctccgcccac atgctctggg tcggcgagcg 300

cacccggcag cttgatggcg cccatgtgga gttcctgagg gggatcgcca acccccttgg 360

catcaaggtg agcgacaaga tggagcccgg cgagctggtg aagctgatcg acatactgaa 420

cccgacgaac aa 432

<210> 41828
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-H8

<400> 41828

tttgaagctt ggtaaggatg ggattcttct acatattgat cttgctaaag gaaatcgccg 60

tcttggtggt tctgctcttg cacaagcatt tgatcaaatt ggaaatgact gcccggacat 120

tgatgatgtt ctgtacttga agaaggtatt tgaggctatt caagaattgc tcagtcaacg 180

tcttatttca gcaggccatg acataagtga tggtggcctt attgttagtg ttcttgagat 240

ggcatttgct ggtaactgtg gttttaagct tgacatagac ttagaagata ggagccttat 300

tgaaggactt tttgcagagg agcttggcct cattattgaa gtacactcga aatatctcaa 360

cattgtgaag caaaagcttg aaatagcagg catttctgct aatgttattg gagacgttac 420

tagctcacca g 431

<210> 41829
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-A10

<400> 41829

cggagccacc ggggagcggg agggcatgtt tctgttcgga gattcatatc gccgaagggt 60

gttcttcaag tacgagaaga ggattaggac gcgcagccct ccagagaaga tctttgagta 120

cttcgcatcc gtccacagcc cagagggtga gatgtacatg ttacctaccg acctgatgag 180

ggcgggtgtt cctgttttcc cctcatctga gtccaaaaat gtcagggaag ggagattgaa 240

aggggagcgc caccctggcg agctacaatg tgctccatct gagtttttca tgctattcga 300

tacaaatggt gatggtgtca tctccttttc tgagtatatc ttcttt 346

<210> 41830
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-A11

<400> 41830

cccacgcgtc cgctgacctg ctcataatta agcttccgtt ccaaaggctt gtcagggaga 60

ttgcccacga tttcaagact gatcttcgtt tccagagcca tgcggtgctt gcgctgcagg 120

aggctgcgga ggcgtacctg gtgggtctat tcgaggacac taatctgtgc gccatccatg 180

ccaagcgcgt gaccatcatg cccaaggaca ttcagctggc taggaggatc cgtggtgaaa 240

gggcctagat tctctgttta cggctactgg gagtggctcc gtagtatggt ttgcatctgt 300

tcgatgcttg cttttgtgga agtttacatt tgtgggtgtt cgaattcgta atattcatcc 360

gtagtggaca agtggtagga agtgctccat ctgactattg tttaaattta taattgaggt 420

cattagtgt 429

<210> 41831
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G5

<400> 41831

cttaaagctg cgccaggttc cggggctggc agttgaagca tagctaggaa acagctttcc 60

ctctcttaat tcgttgtgtt cgtggtgaca taatctgtgt gcggaccgaa tttagaataa 120

agtacaggcg tccgtctgat caaataagca ccggtgttgg tgctctatag atgaatatat 180

ccggtgattt tcggcatggg aggcattggc acatttttgt ctgagttctg gcggtagcaa 240

gaccggagta ataaccatca ggcgtttcta tgttggttac gtgccgcacg catgccgggc 300

gtgcggagga tttatgccct gagaggctga gactatctcc ctcgtccctt attttaaaca 360

gtatcattat acaattccgc gtt 383

<210> 41832
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E9

<400> 41832

cggacgcgtg ggtgaagttg aagcactctt caggactgca attgagaaca acgagcaaca 60

tgaactggaa gttgcatctt ctcgagctgt ggctgaagaa gacgcctcca ataacagcaa 120

ggacatagct cagggcgttg aaaatctgtt ggaagatgca cggaattcaa gttcaagagt 180

ggtctcaacg gggaggctca cttcggtgag ctacagatgc t 221

<210> 41833
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F1

<400> 41833

ttcataccac ccacgccata actctagaat cgctttttca aaccaaccga ccgattaacc 60

caccacctcc tcacctcatc ttcgctctct tcctcgtaca aagccttgtc ctttcatctt 120

gagtcattgg actcactttc acgcatccat gaacggcatc aaccccaacc tcggattcct 180

gtcgtactgc aacatgtata gctactcgat gtgcatggcc accgtcatat cgtctatctt 240

cttctcgttc ctcgaacgct actccttcat ccacct 276

<210> 41834
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F10

<400> 41834

gaagctgcag gggtccaagc aagggtggta ggggcagctc gcgatcgacg ccgagatcgt 60

cgaggtgaca ccggcctttc acgtcgtcga ggtgaagaag tcggcaggcg acacgctgga 120

gtatgagatg ttctgcagca agggcctaag accttcactc agcgacatct gctggagcag 180

ccgatctgag gagaacatgg ctccttcagt ggttcagcca tcacaattgg agccatcctc 240

ttagaccgtc tccgacagtt tactcacccc tcttagtcga ttgttattta agtgcagtct 300

cttcggagat gcaattacag tccatcctct ctttcttttc ccctttctca aagagctagg 360

accttgctcg actgagcatc aggctgtagg gctctttgtg atcatctttt gccagttttc 420

ttctt 425

<210> 41835
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-F12

<400> 41835

cgccgccgag gccccggcgc ccgctcccac cagcgcctcc tcggctgcgt tcccggccgt 60

cggcgccgtg ctgagcgcct ccgtgctctc cttcttcgcc tactacctgc agtaaaatta 120

aaggaggatc ggagggagag gctgctggct gccattgcct gtattcggtt ggatcccgtt 180

tatatatata tatatatatt taagtacttt aatttgggtc tgaacatgtc gattgatcca 240

ttcattttat ttgctttgcc atttctcccc tttctgttaa tttcgatatg taaagagggg 300

agaatgggag acactattcg tttggacatg acaatcggaa attaatcaat acccatttgt 360

tngtt 365

<210> 41836
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F2

<400> 41836

caaggacgtg accgtgacgg cgcccggtga cagccccaac acggatggca tccacatggg 60

cgactcatcc gggatcacga tcaccaacac cgtcattggc gtcggtgacg actgcatctc 120

catcggcccc gggacctcca aggtgaacat caccggcgtg acctgcggcc ctggccacgg 180

catcagcatc ggcagcctat ggcggtacaa ggacgagaag gacgtcacgg acatcaacgt 240

caaggattgc actcttaaga agacgatgtt cggcgtccgc atcaaggcgt acgaggacgc 300

cgtcttcgtg ctcaccgtct tcaagatcca ctacgagaat atcaagatgg aggactcagc 360

caaccccatc ttcatcgaca tgaagtactg ccccaacaag ttgtgt 406

<210> 41837
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-F5

<400> 41837

caccggccgt cgagcgagca gtctcccaat tccacccaat aactaataac atctgctcga 60

acgccaggtt ccttggacca ctatatccag gagcgacgaa gtgatccacc cgccagccat 120

ggagatgaag aaggtcctct gcgccgccct cgtcgccgcc gcctcggcca ccgtcgtgct 180

ggcctcggtc gcctccgagg cgccctccga ggcgcccgcc ggcgcggccg gtggtgcggc 240

tggccctagc gcaagcggcg ccgccgtcgt cgtcgtgccc gccgtcgggg cgctcgtcgc 300

ctccttcctc gcctactacc tncactgagc gacgacgcgc ggtgcggcaa cgttgggatg 360

catcgtgttt ggttcatccg attaattaat tggttttttt atttacgtgg tttgcgattg 420

gttaa 425

<210> 41838
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F6

<400> 41838

gctctgccaa gatcccatgc accggcgtca ccatggacga cgtcaacatc aagtacagtg 60

gcaccaacaa caagaccatg gccgtatgca agaacgctaa gggcagcgcc aagggttgcc 120

tcaaggagct cgcatgcttc tagaaccacc atcgacccat ctctctagtt atacaatgtg 180

tttggttgtt ggatgctgag agattggttc tcagctcaga tgcaagctgc gcctagcctg 240

tgtaggtttg tgctggtaca ttgagagctc ttatttattt gctttgattg caattaacca 300

ggatgaccat agcccttgtt tggtttgctg tttttataag ttgcatgaac acaacttctg 360

tttggtt 367

<210> 41839
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F7

<400> 41839

cgggccgacc cactcgtccg gctctaccaa gatcccattc acctttgttt tccatggacg 60

acttcaacat caactggagg ggctccaaca acaagaccat ggccgtatgc aataacgcta 120

atggcaactc caaagtttac ctcaatgaac tcgcatgctt ttaaaaccac catcgaccca 180

tctctctaga tatacaatgt gttttgttga ttagatgcta atagattctt tctcaaa 237

<210> 41840
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F8

<400> 41840

gaaattcggc agcaggcatt agaggctatt tatatgatcg tattgcagga tggtggccga 60

aggtcctttt ggtcagttaa tggcccacga attctgcagg ttggttatga agatgaaaag 120

gacccgaaag tgatggaagc atatgaactt attggttccc tgcttgttgg gaagggtgaa 180

gatgtacaag ataacaagaa ggaacaagga gagaagcctc aatgagcccc gccgctgata 240

aaaacggtgc tgtatttttg tttgtctaga aaacatccct cgccgtgtgc aatagcaata 300

gtatgatatc ccaacttgtc aactgttgca actgcaagag ctctgcagtg ttgcttttgt 360

aattgacgaa tgtatctgga aaatttgcac gtattggccg tcttttcctt gggtttgagc 420

tctctgacaa ttc 433

<210> 41841
<211> 285
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-F9

<400> 41841

ccaaaatgat atggcttgtc tattctaatg tcaactgttg caacacaaat tactcttggg 60

atagacttct gacaaatagc ttggcactgt ttctgaatta ggcctaggtg cttacatcaa 120

ttttctcttg ttgaatccgg ctttaattca tgactagaga ctttagagta ttatcagtcc 180

ttgttgaggt tcagcctttg ctgacaccaa tgtaattaac atctaaaaat attctttgaa 240

tcagcttgtg attcatcagc aagacgttag ttgtcatgta caana 285

<210> 41842
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G3

<400> 41842

cgccgtgact cgcgccgccg cgggcccgtt ctgctccgac gtgctccgcg cgatgcagcg 60

cgagcccgag gtgatgtacg aggtgctgaa gcagaggacc gactgcgcca cggtcgtcga 120

cctcgcccgg gccttcggcg caatgccgta cctggtgttc gaccccgagg ccgccgtgat 180

gtccggcggc gagagcagcg actcggagcg gtcggccgcc ggcgccgtcg aggaggaaga 240

cgatgaggag tgggagttca tgcgcgggct caccgtctga tgacgtgccc gtccgtccgc 300

cccgggtgaa acaaggcgag ttcgtcgcca 330

<210> 41843
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G4

<400> 41843

gactagtagt aggacccttg gaggagcagt cgcgtcacgg acatgcggac acagcgggat 60

ccagcaccaa gagcctagga aggccagggg caggggtcct cgccctcgcc gcaatggagc 120

tgctggccaa ggcgcccgtg ctgggctgcg ccgggaagat gcagaggcag cggcaacggg 180

ggtccgcgct gggcaggtgg atttgccgtg ccgtggcgcc gccgagggtg cggctcaggg 240

acggccgcca cctggcgtac gccgagtccg gggccagcaa ggaggacgcg aggttcaagg 300

tcgtcttctc ccacggcttc accggctccc gcctcgacac cgttcgtccg gcgccggaag 360

ttgcggagga gctgggcgtg tacatggtgg gtttcgaccg cgccgggtac gggcagagcg 420

accccaacct caccggtc 438

<210> 41844
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E7

<400> 41844

cggacgcgtg ggcggacgcg tgggcgatga catcccaccc acgcgagagg tctgaaaccc 60

aagggcaaac caaccgaccg attaacccac caccgcctcg cctcgtctcc gctctcttcc 120

tcggacaaag ccggggccgt tcggcgggag gcaggggacg cacgggcagg cagccatgaa 180

cggcatcaac cccaacggcg ggttcctgtc gtacgggaac atggagagct acgcgatgtg 240

ggtggcgacc ggcgtggcgt cggccttctt cgcgtccctc gagcgctgct cctgcatcca 300

cctccacacc gcggaggacg acggcgtcga ggaggaggag gacctcgagg aggcccgccg 360

ctccttctcc cgcccgatcc ctgagtacta ctacgaccgg tccg 404

<210> 41845
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D11

<400> 41845

cggacgcgtg ggcggacgcg tgggtgccat atttgaaaca gttaagaatt catatataag 60

agtgcatata tatatatata attctgccaa gacaaaggta atggagtcgt cacgcatgtt 120

ccagccggcc atcatcctgc ttctcctgct cattgtgacc accgatgtgg cgcatgcggc 180

gagggaatgc gagaaggaca gcgagcgatt ccttggggca tgcatggcgt cggacaactg 240

cgccaacgtg tgccgcggtg agggcttctc 270

<210> 41846
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D2

<400> 41846

cgagaacccc gagaagagca tagactccct ccacgtcgat ggctacgcct tcttcggcgt 60

cgggatgggc cccgggaagt ggtcgccgga ggtgaggaag acgtacaacc tgctggacac 120

ggtgagccgg cacacgatcc aggtgtaccc gcggtcatgg acggcaatca tgctgacgtt 180

cgacaacgcg ggcatgtgga gcgtgcattc caacatctgg gagcggtact acctcgggga 240

gcagttctac atcagcgtcg tctcgccggc gcgatcactg cgcgacgagt acaacatgcc 300

cgacaacgcc cttcgctgcg gcaaggtcgt ggggctgccg ctgccgtcgt cctacgcccc 360

cgcgcgctaa gacgacgaaa gcctcgtttt cttctcgtgg tctgaccatc caatccaaac 420

tcaaaagaac aaa 433

<210> 41847
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D4

<400> 41847

tcagctggat atggaatttc tcaaggccgc tcttaaggaa ttcgcggatg atgaagcagc 60

cattagcttt ttactcaaag aggtgaacaa tgctgcccat gatagatgtc ttgacccaat 120

ccctcttgag ccccccatat tagataagct cataaatgca taacttgcat aaatttaaga 180

gagaaaccca tatatgcggc atctattcac agatggttgt cttttactaa aattcagttc 240

tgtccatttt aatgcactat 260

<210> 41848
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D5

<400> 41848

attgcccatt gccattcctt ccttcctcca cagagaaatc cgatccgcgg agatttgacc 60

caaccagatc atatcacaca cgtaatccca tcccattccg cccgcaacag cagcaccacc 120

ggtgggaaga agaagatgaa gaaggccact tcgctctccg agctgggctt cgacgccggc 180

gactcgtcgt cgggcttctt ccgccctgtg tccggcgact cgtcgacgcc gacgtcgcag 240

caccaccggc ggaggctgac caaggtgtcg gtcatcggcg cggtcaacgt ggggatggcc 300

atcgcgcaga ccatcctgac gcgcgacctg gccgacgaga tcgcgctggt ggacgcggtc 360

ccggacaagc tccgcgggga gatgctggac ctgcagcacg 400

<210> 41849
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D9

<400> 41849

cggacgcgtg ggcaaatttt gtaaagccta tgtgcttctc cgttgtattt ctactcgtcg 60

tattttccca tggaaaactc acgggaaact ttatctagct tagctctagt ttggaaactc 120

aaatcccttc gtggatggaa ggggtttgag ggacaaatta gtttattttc atcttaatcc 180

cttctaatcc ccgggtgatt tgagtttaca aactagcctt tagagtaaag atttaccaca 240

ttggcaatga aagatgatgg cctgggaact aggtgg 276

<210> 41850
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-E1

<400> 41850

ctggtgtggg catccgtgtc ttggcagctc gcttctctcg gagttgtggg cttggttttt 60

gaggtatcgg cgttgttctc gaatgtggtc agcacttttg ctctaccaat tgtccctctt 120

tttggtgtga tggcctttca tgacaagatg aatggagtca aggtcatagc tatgctgata 180

tcgatatggg gttttggctc gtatctctgt caaaactatc tcgatgctaa gaaagctgga 240

agtgcatatg gggattccta gtgtctacaa ttttcttgtg atagattgct ctttatcggt 300

ttagtttggt tcttgcgaga tgataagtgt ttattactta tgttaattta agtatgtttt 360

gtgaaagtgc tttcagctgt ggttgttang tggtgtgagt 400

<210> 41851
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E10

<400> 41851

ccggacgtaa ggcggcgatg gtggtggtta agaacaagaa ggtggtgcta aggaggcgcg 60

tcaccgggtt ccccacggaa gaagacatgg agatcacggt ggacactatc gagctgggtg 120

tgccagcggg gctgacggcc gtgctgatca agaacctcta cctgtcctgc gacccctgga 180

tgcgcggtcg catgagcaag catgaagacg gcgccaccgt gccagcctcg gactttgtca 240

tcggagaggc catggtgaat ttcggtgtgg gcaaggtggt cggctcgacg caccctgagt 300

tcaccgccgg tgatcttgtc tgggggctga gtgggtggga ggagtacacc ctcgtcaccc 360

agccggaatc gctgcacaag atcaaacaca ccgagctgcc gctcttctac tacacgggag 420

<210> 41852
<211> 159
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E11

<400> 41852

cgacccacgc gtacgtcaac cttaacgcgc ccaccgactt ttgttataca acaacaacgt 60

ccacctaagg aggtagggca acatcatcat cacggactaa aacatcgaga ccaccgacga 120

cactatctat cattgtctcc catccaacct cactcttcg 159

<210> 41853
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E12

<400> 41853

ggaggaggtg gccaacccca tcgtcatcta ccagtacttc tgcccgcaga aggtatgcgc 60

tggcaagcgg agcaactcct cgcatgtctc cgtcaaggac gtcacgttcc gcaacatcac 120

cggcacgtcg tccacgcccg aggccatcag cctgctctgc tcggagacgc agccatgcag 180

cggcgtctcc ctcatcgatg tcaacgtgga gtacgccggc aagaacaaca aaaccatggc 240

cgtctgcagc aacgccaagg gcaccgccaa gggaagcatc gaggcactgg cttgcctggt 300

ctgatgatga ccttcctttt gcatgcatgc atggtatctc atccttgatg atgatctagc 360

tcactagttc tttttaattt ccgcttcatt cgcttttcca aattcgattg tgtttcagcc 420

aagtt 425

<210> 41854
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-E3

<400> 41854

catcaacagg cttgtaccgg agcacatttg acggcagaac ggtgtcaact ttgggcatat 60

cgggagctag gagggcaggc ggctgccatg gtctagtttt tggtcttggt accccatgtg 120

cagggccggt tgcaggtgaa ggtgatattg ctgcaccatc tgggagagga ggggctcagc 180

agtacctgag agagctgaaa ctatgtaaat tatctgaccg cgaaggagta cggccagtgt 240

taagccagta aactggcgca tgttggtcca gagtagttaa ggtaagaatg tagcaggtgg 300

agactggtaa atgcctaggg tcgtttttag ttgttaccag tattttgtaa tgtaatgttc 360

gtcggtactt tccagcagta gtgtagctgc tcctgttttg ttcgcccgcc atgatgtana 420

tgatca 426

<210> 41855
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E4

<400> 41855

cagagctcct gactgttcct ctctcccttc tcacgggcgg gctccgtctg ttccgtccat 60

ccaccgcccc ggtcgtctcc cggccagatc cctctcctgc aagggtttct ttagcgacgt 120

ggtcgggaga aagatgaatg gcgggtttcc tctccagggt cctcctgctg gcttttggct 180

atccctatcc ggcctatgaa tgctacagaa ccgttgacct gaccaaaccc cgatttgagc 240

agttcatatt tggtggtcag tattgaattt a 271

<210> 41856
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E5

<400> 41856

atcgccttcg tctccaccga ggccgagacc gacaagcctg agatcgagct caagcccggg 60

atcgacctgc ttggccctgt agaggagacc ttcttcgaca tctacgacag atatgaaccc 120

gtcaacaacc ctgacgacga ctgctgtttc ctcacaaata gctatgactc caccacccat 180

tttgagacga cggtcaagga tgtgctcgcc ttgtacaaca agatcactgg aaaggagctt 240

gatctctcag tcgatttgaa cgcggctagt gctactgagc aagaagctgc ttgaacaccc 300

cggcggcctc ttttttgca gctctacaca atagctattt cttcgattgt ttttttaaaa 360

tgttccatag atggataagt ttattgatga aatccattat tgcatgcatt ttggagttcc 420

gtctttgtca cat 433

<210> 41857
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E6

<400> 41857

gcggcgagga gagccggcgg ccacaggatg gagaaatggc ttccgcacac aacgctctcc 60

gggtgttttt catcctagcc gtggtatgtg ccgtatgcac agcgaaaagg acaggagcca 120

acaaggaaga atcggcggca gcccccggtg gcgctgctgg aggcagcggc gggacgttcg 180

acatctccaa gctcggcgcg accagcgacg gcaagacgga ctgcacaaag gcagtccagg 240

acgcgtggac gtcagcgtgc gaagcgaccg gaagcgccac ggtggtgatc cccaagggcg 300

actacctggt cggccctcta aacttcactg ggccatgcaa ggggagcaac atcgccatcc 360

agctggatgg caacctgctg ggatcaaacg acctgaacaa gtacacggag agctggat 418

<210> 41858
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B4

<400> 41858

cagcattcta ttcagggtgc atggtcgtgt ctctagaata tgatcacacg gcaagcatcg 60

agtgccttgg cgacccaatg aaacccttgt acaagggcgg cattgtccag aacagcgagt 120

tcaacagcgg actgatgggc tggtcgacac accggaacgt caaggccggc gtgagcagat 180

cgccgtccgg caacaagttt gcagtggtgc atggggcggg aagctacgtg agcagcagcg 240

gcaagctcct accgtcccac agcgtgtacc agagaatcca gatgcagagc gacaggcact 300

actcgctatc agcatggctg caggtgtcga acggcacgtc ggcacatgtg agggcggtga 360

tcaagtcccc caacggcgaa cgcgtcatcg ctggtgccat c 401

<210> 41859
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B5

<400> 41859

atcacaataa gatggcgtgt atagacaatg caatgagagc cttgttcctt ttagcgctct 60

tctgtgtcgt gcatggtgag aaggcaaagt caaaggacaa cgatgcaaaa gcgtccgggc 120

ccggtgggtc cttcgacatc accaagttgg gcgccttcgg caatggcaag acggatagca 180

cgaaggctgt gcaggaggcg tgggcatcag cgtgcggcgg caccgggaag cagacgatcc 240

tcatccccaa gggcgacttc ctcgtcggac cactcaactt cacaggccca tgcaagggcg 300

acgtgaccat ccatgtgaat ggcaatctgc tggcgaccac ggacctaagc cagtacaagg 360

atcatgggta atggatcgag 380

<210> 41860
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B6

<400> 41860

gagaagtcag caacctatga tgagatcaag gctgcggtca aggccgaggc agaaggtagc 60

ctcaagggca tcctgggtta cgttgaggag gaccttgttt ccaccgattt ccagggtgac 120

agcaggtcta gcatctttga tgctaaggct ggcattgcct tgaacggcaa cttcgtgaag 180

ctcgtgtcct ggtacgacat cgagtgggga tccagaaccc gcgtggtcaa cctgatccgc 240

cacatgacca gcaccaacta aaatgaagac ctaagggcct ggtaatccaa ccaagtgtgc 300

tctttccccc ccgaaaaaag atgcttccaa gattaaattt ttttcattgg aattgcttaa 360

acctaggttg ggggtatcct agtggttggt tgagcattaa tggctcatat ttggtcaggt 420

ctatgtgtcc 430

<210> 41861
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B7

<400> 41861

cggacgcgtg ggcgacagca gcggcgggcg acggggaacg gggaacccct gtactgtatt 60

tcgtcgacct ttgccatggc gtcgatgatg agttctcgcg cgggcgcggc ggcggccgga 120

ggaggagaac accgccgtca gcacgtcacc gtggcgtgcg gtgggctgac gcggccgagt 180

accaggcccg tgccgggcgc agctggccca cggtccggga cgccgaggcc gcggggacct 240

gctgcagctg cgggcggctc ttcgtcttcg tcgccgacgg ggcgcgcggt gccggagtgc 300

aactggtggg gcgctgccgc gcggcagcag gcgacgccga ggcggtcgag gagcggcagg 360

gccgcggtcg cgcgcgtgcc cacgggcaag gggaaccgcg agctggtgag acgggcgctc 420

acg 423

<210> 41862
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-B8

<400> 41862

agacgcggtc tcaaagtttc tgttgctggc attccaaaga ctattgacaa tgacatccct 60

gtaattgaca agtcatttgg tttcgacaca gcagtcgagg aggctcaacg tgcaataaat 120

gctgctcatg tggaagctgt aagtgctgag aatggtatag gtcttgtcaa gctaatgggt 180

cggcacagtg gttttattgc acattatgct actctggcta gcagggacgt ggattgttgc 240

ttgatcccag aatcaccatt ctatttggaa ggcgaaggcg gacttttag atacatagaa 300

aaacgtttga aggacaatgg tcatatggtt atcgttgttg ctganggtgc tggacagaaa 360

cttattgctg aaaccatgca gtcaattgng aaagatgctt cangcaacga gctgcttctt 420

gatgt 425

<210> 41863
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B9

<400> 41863

tgtatttcta cgatttgaaa tatagtttgt ttgtgacggg agcgagtaat tctcagactc 60

ctcatgtgca cagtcacttt ttcctcataa tacatccagg tggggttcct cccccagttc 120

actctataaa aaaactatca cacctacggt cacaaggttt cgtataaata cagttaggtt 180

gggacgggag cgagtaattc tcagactcct catgtgcaca gtcacttttt cctcataata 240

catccaggtg gggttcctcc cccagttcac tctataaaaa aactatcaca cctacggtca 300

caaggcttct accccgtcga tatatatata caaatggatt gcataaaaga aattatcgag 360

ggcgagaaca ctctgccgta tcagtcttga taactctggt gttgtaagaa ccac 414

<210> 41864
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C1

<400> 41864

gtacttgacc aagaagtact tgaagaagca caaggtgcga gattggctcc gtgtgattgc 60

agccaacaag gaccacagcg tctatgagct gcggtacttc aacattgctg agaacgaagg 120

cgaggaagaa gattagactg cattgcactt atatctcagt tttgaactca ttgaatttgg 180

tacctgtacc cgtagttttg caaatgcccc catgttatgc tctggtgaat tttggatggt 240

ttatttattt gaaaagtcta tgcatttggc tgctcctata tgaac 285

<210> 41865
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C10

<400> 41865

gtttgagctg gacgtgctgt tggaatctgt tagtgttaca attaagcgtg ttgaggagtt 60

ggtggtaagt atggaaggca actcactgaa acctgatagc tctatccacc tcgatgaaca 120

tttgactagt ttgaatatga ggtgcattga gtggctatat ggtgaccatg gacttgatgt 180

tgtggatgtt ctttcaaaaa aatgctggtg tgacat 216

<210> 41866
<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-C12

<400> 41866

cggttctcgg aattttcccg ggtcgatccc acgtccgtcc gtcttcnntg aaatcagtag 60

cagaaaagta tccatctcaa actttcttca ccnnntcgca atgggagaaa gggatggann 120

tgactttcat tannacgctg nnttcaagaa tgggtgannt gaggagaaac acatgtccca 180

tggtaatacc aatacgtatc atgtgttgca tcctctagtg tctgcatcct ccccatatnc 240

tgtatgatgc tcgttgaaga aagcaccnng ttgcagaaga atgccagaat accaaagtta 300

ttagtcattc tgtactttac tgcaatggtt accaagaact ctgttgctga gggtactctc 360

ccagctttaa aactgaatat taagagagat tcattccaga aaagacacna atctgcaaag 420

aaactaaggt ctcagatgaa attcaggaaa gtcaaaaggg tctcat 466

<210> 41867
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C3

<400> 41867

ggaaaatgct gcgccacgcc gcccgccgtc tcgtttcccg cgccgtcgct ccgcccaccg 60

cgcgccgggc gctcgccacg gcggaggtgc ccgcggaggc cgtcgaggac tccacgttcg 120

tcgaggcctg gaaaaaggtc gcccccaaca tcgagccccc agcgacgccc ctctccctca 180

tgcagccgcg cccgcccacg ccagctacca tccctaccaa gctcaccgtc aacttcgtcc 240

tcccctacaa gtccgagatc gccaacaagg aggttgacat ggtaattgta ccagctacaa 300

ctggtcagat gggtgttttg ccaggccatg ttgccacaat tgcagagctc aagcctggtg 360

ttctctcagt acatgaagga aacgatgtga gcaagtactt tgtgagcagt gggtttgctt 420

tcgtccatgc — 430

<210> 41868
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C5

<400> 41868

atgtaatgct ttaatttact gcattctacg tcgtttttc ccttcttctt ctatgtgttt 60

cttttttatgt ggcagcaata gtattattca atctcttatg agctgcagct acgtacaaaa 120

agaaacaaat agaagaagaa gggaaaaaac gcgacaagaa cctgggcccc gaggcctccc 180

gcccagggaa acccgccaac gactacaccc gcggctgcaa cccgatcacc ggctgtcgcg 240

gctgatcata tctctctggt cgatgtgcgc gcaatgtcaa tgtcgcacgc gcgtgcaggt 300

accaggcctc agcgtgtggt gccgcgtgtg tgtatatatt acacacatgc attatacatt 360

ggtcgtcgat cgttactgta tgcatggcaa ctgatgcttc ttgcctcgca tatctgacgt 420

gtatactgat gtatgt 436

<210> 41869
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C7

<400> 41869

gaaacaatcc ttgcaccccct cccctccgtc accccaccac attcggccag cccaacgaaa 60

atgtcgcgcg ccacagctgc ggtcctcttc tacatcctcg ccgtcgctgc cctcagcgcg 120

gccgaggcac cggcagagtc accgaaggca ggcagtcctg ccaaggcacc ggccgagtca 180

ccgaaggcag gcagtcctgc agctcctgcc aaggcacccg agtctgctgc cacgagaact 240

gccccccgcta aggcacctca agccggctac acccccgccg atgacgctgc cccatcgtcg 300

tcgtcgtcta ggaagtctgg tccagctgcc gcgccgacca ccgtcgcctc tacaccgtct 360

tcttccacgg acgaggagtt gagcccttcg ccgtcggcat ccacc 405

<210> 41870
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D1

<400> 41870

cggactcgtg ggcggacgcg tgggctgtaa tcgctgtcat ggggcatgtt ggcctcacac 60

cgcaagctat tagtgttctc ggtggattta ggcctcaagg gaagacggtt gacagtgcta 120

taaaggttgt ggagacagca cttgccttgc aggaggctgg atgcttctcg gttgtgttgg 180

agtgtgtgcc tgctccagtg gcagcagctg caacatcagc attgaaaatc ccaaccattg 240

gcattggggc tggaccattc tgtagtggcc aggtcttggt gtaccatgac ttgttaggga 300

tgctgcaaca cccacatcat gccaaggtca caccaaagtt ctgtaaacaa tttggtaacg 360

tgggcgatgt tatcaacaag gcgctatcag agtacaagca agaagtgga 409

<210> 41871
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B3

<400> 41871

gatgaaagac catgcaatgg ttttcaagaa gctttagctc gatacagaga gattgtacct 60

catcttcgcc tttcgggtcc tacgtcattc gccccaataa ttgacatggc cacaaccatt 120

gtggagcaaa gtggtggcca ataccatgtt ttagtaatta ttgctgacgg gcaggtcaca 180

agaagtgtag atactgaatt tggtcagtta agcacccagg agcaaatgac agttgatgct 240

attgtacaag caagccaatt cccattgtct ataattcttg ttggagttgg agatggtcca 300

tgggatatga tgaaggaatt tgatgacaat ataccagcta ggtcttttga caatttccag 360

tttgtcaact tcactgcgat catgtcaaaa aagataagtc aaagcaaaaa ggagacagag 420

ttcgcccttt cagcact 437

<210> 41872
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H6

<400> 41872

gaacatcgtc catccgagct aagtaattag gtcgaaaatg acccgtgcca gcagcagtag 60

cagcagccgg cgtgtgacgc tggtactgct cggtctccgc ctgctgcttc tggttggtgt 120

tgcgcaggcg gtagtggagt tggtgcctgc tgatgataat atcgccgccg ccgctgctgg 180

cacggcggtg gacgatggcg agccgcctca gcagtgcgcg accccggtga gcgtggagga 240

ggcgtgccgc ggcgcgtccg agacgcacgc cggcgtggcc tacgaccact gcatggcgtc 300

gctgggcgcc gacccgcgca gcatggaggc cggcaacaag aacatgcacg ggctggcggt 360

gctggccacc aggatggcca tcgaccacgc cgtcagcacc gagtccaaga tcgacgacct 420

cgcggagctt gaa 433

<210> 41873
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-014-Q1-K1-H8

<400> 41873

tcgtgtggac gtgcaaggga gcgtgttcga gcttcttacg gcgtgtcgca cggtcgaccc 60

cgagacccgc cgtcaagtct cgtccgagta ccttcataca ccacgcgacg gggctgttca 120

cagtatcgac tatcatgcgc gcgatcgtgc gcgctccttc caagtctcgc gtcccaccaa 180

gtatggctcc ccatacgtca ttccgcgtcc gatgttctcg ctaccttcat cgatggtggt 240

ctatcgatga actccgcgat gaagagcatc agacagccat cgcactatcg acgagctacg 300

tccttcttca cacgtcaggc atgggcccgc ggcataatgg acgtccagct gtcccggaag 360

cacgtacata ccttctggac acggttagcc gtctcacgat ccaggtgtac cctangtcgt 420

ggacggcagt gatgatgacg ttcgacaacg tcggcatgtt gag 463

<210> 41874
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H9

<400> 41874

aataaggcct aagaagataa cccagtgctt cttcgaacag acgagttgtc cgacgttccg 60

gtccaagtac catgtatctc aagtacaggg gaacgagcat ttattatgtt ttctccaggg 120

ttgaaagtgc agttgcgtgc agagaatgaa tgcctaggca tgcagccact cgctctcggt 180

cggtcgctcc agtcctgctg gcttcgctta tcttcccctt ttatttctcg tgatgacatg 240

gaatagtcta tcctcgtcta gctaatcagg tcgcggaagg aagcgcccag ctctcgggca 300

cgggcccgac gtcatatatg ac 322

<210> 41875
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A10

<400> 41875

atccaggacc atgcggccag gctccgtttc gcgctggcca cactcggcgg cggcactacc 60

gttcgctggt cggcgcggcg gaagccgcgg ctgctcaacg ggtaaaggag aaagaggcgg 120

aggcgtctga ggccgcgcgg ggccccgcgg acctggagga ccgggtggcg cggctgaggg 180

cggaggcggc ggcgtggcat gccaaggacg cagcggatca gtccacagcc gcggcgctcc 240

acgcgcagct gcagaaagcg gcggcggcgc atgcgagggg caa 283

<210> 41876
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A11

<400> 41876

gcaacatcct caaaacgctg aagaagctca agccggaact ctgcgccgac gccatgggca 60

cgctcatcta ccagtccgac atgcgcgcgc aggatcccgt cggtggctgc taccgcctcg 120

tcctcagtct ggagcgccag ctcgagatcg atactgccga gctcaccgcc gtgctccacc 180

acttggcgtt ctgccgccag gctaccacga caaccaccgt gatggcaccg caacagcaag 240

gcggtggcat ggctgacctc gacgtcacgt cctccaacca gccgcttctc cccaacgagc 300

agcaagaagt cgttgacgca ctctacgtga atcacgaagc tcacaccgcc atccttcaaa 360

ccgacgaggt cgtccaccgc cacggtggag gccacagccc caccgatgat catcacggtg 420

a 421

<210> 41877
<211> 81
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A12

<400> 41877

ccgtccgatt cccgtcgacc acgcgtcgta catattaatt caatatctac ttataagcat 60

tccgaacctg aaaatcaggg g 81

<210> 41878
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A2

<400> 41878

aaggcacctg tttttggaaa gcctcctcgc tggtttagtt atgctgaact ggaacttgca 60

actggtggtt tctcacaagc aaacttctta gctgaaggtg gatttgggtc tgttcatcga 120

ggtgtccttc ctgatggcca ggctattgct gttaagcaac acaagcttgc tagttcccag 180

ggtgatgttg agttctgctc agaggtggaa gttcttagtt gtgcacaaca tcgaaatgtt 240

gtaatgctga taggtttttg cgttgaggac aaaaggcgtt tattggttta cgagtacatc 300

tgcaatagat ctttggattc acatctctat ggtcataatc gagaaacatt ggagtggact 360

gcacgac 367

<210> 41879
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-A3

<400> 41879

gacttacttg aatactcttc aacagctcat aataaagagt ggtcttatag atcatattgg 60

aatcgaacct ttgatgatgg aagctcttga gaagattgag aaggatatta agaaaccact 120

tttaaggagt gacaagaaga acatggccac ccttatggca gagtttgaca agattaacac 180

aaagcttggc attcggaagg aggatcttcc taagatcgag aaagaacttg aattggagat 240

tgccaaaagt gagctgactg aacttaagaa ggaatgtgtt gaggcaatgg agactcaact 300

caagagggag gagttccaag atgaggagat gcctgatgtc aggaaactgg acattcgaaa 360

ctttctgtan gcctgatcga cgataacctt tgaggcattg caaatcacc 409

<210> 41880
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A5

<400> 41880

cagcaatgtc aggtttgctt tttttcattc tctccacact tcaacttaaa tcactaaagt 60

tctgttagtg gattaaccat gaagaatact atagacatcg aatgaatgtt tttattttcc 120

atgtcattca aacttatttc agtgctggag tgtttttttcc agccaaagta attatttatc 180

cttgaatgta gtgttatctg ctgtcagtgg cttgaaagtt gggctaccaa atacctcaca 240

aggtgatttc tttggggtta aaatttctcg tatcttatag catggagttt atttttaata 300

aattatggct tactttgtgt tttcattaaa cgttctttgc agatgctgtt gtgatgattt 360

caattgcact tcttgtagta ttgtttagtg tacagaggta tgccactagc aaagtggggt 420

ttgcaattgg ccccttct 437

<210> 41881
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-A7

<400> 41881

cttcgatctc ttccacttcg gccacgcccg cgccctcgag caggccaaga tgctgttccc 60

caacacctat cttctcgtcg gatgctgcaa cgacgagcta acctaccgct acaagggcaa 120

gaccgtcatg acccaggaag agcgatacga atccctgcgg cactgcaagt gggttgatga 180

ggtcattcct gatgcaccgt gggttctcac acaggagttt attgataagc atcagattga 240

ctatgttgct catgatgcgc tgccttatgc tgatactagc ggaacagcaa atgatgtcta 300

tgaatttgtt aaaaagattg gaaaattcaa ggaaacaaaa aggacagacg gggtttctac 360

ttcagatctc ataatgagga tcttgaagga ctataaccag tatgtcatga ggaatttagc 420

acggngctac tcg 433

<210> 41882
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A9

<400> 41882

aagttccact ccttccatcc tgtctccact attctgagct acctcagcaa ggctcctctt 60

gtacctcctg gcacaccagt ggtgaatgct ctagccaagc agagggccat gctggaaaac 120

atcttgcggg cctgcattgg ccttgcccct gagaacaaca tgatgcttga gcacaagtga 180

agagtttcac gtcccttaat taactaccgc aagataggat gaatggaaaa ggagggatca 240

agcgaaggtg tgggaataat cagtgactcc tctgagccca acgaagaaat gtcaggaggc 300

tacaggaagg agaagtgtaa ggagagaaga accagcatgg atatatcctc ttttcgaaag 360

ctatctatct attctttttt ggaaaattga ctcgtttt 398

<210> 41883
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B10

<400> 41883

gttcgcattg aaagtgatgt gtatgtgacg gctcaaggat gccggaacct cacaaactgc 60

cctcgagaaa cctgggagat cgaggctgta atggctggcg caccatggcc tctgccggct 120

tcaagttcta tggtggtagc agcagagaat agcaatgaca tatctaaagt gtcgtaattt 180

tctctatgct caatccatat cccgagttga aacaaattcg atctggattc ttatattcaa 240

taaatagtga ggctgaggcg caaaacattg ttggattgat gactggaaaa catttcatac 300

gctcacttat tttgtaagct ctctgttatg tgtttg 336

<210> 41884
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B11

<400> 41884

caaatacgga ttggaggatg atacggtgga ctttatcggg catgcgctag cacttcaccg 60

ggacgacagc taccttgacg agcctgcaat cgacactgtc aagaggatga agctctatgc 120

agaatcactc gcacgctttc aaggagggtc cccttacatc taccctctat acggtctggg 180

agagctccct caggcctttg cccgcctgag cgctgtttac ggtggcacgt acatgctgaa 240

caagccagaa tgcaaggtcg agtttgatga gagtggaaaa gcgtatggag tcacttctga 300

aggggagacc gccaagtgca agaagatcgt ctgccatcct tcgtatttgc cagacaaggt 360

gaagaaggtt ggaagggtgg cccgcgcgat atgca 395

<210> 41885
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B12

<400> 41885

gagaaagtga aggcactttt gaatacggta actactataa agaagtggac gatttacgtg 60

atgtgatcct acatttcaaa aaacacaaac gtgacaccca tgctattgct ggccacagta 120

agggtgggaa tgtggttatc ctctatgcat ccatatatca tgatatatct aaagttgtta 180

acctgtctgg aaggtttaag ctggaacgtg gtattgaaga tcgttttgga aatgattaca 240

tggaaaagat tgatcagcat ggtttcattg atgtggaaga caaaacagga cgtatcatct 300

accgtgtgac caaacaaagt ctgatggacc gtcttaagac agatatgcac tctgcatgct 360

tgtctattga cccaaactgc aagggtgtga ctgtacatgg tgctaatga 409

<210> 41886
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G10

<400> 41886

actgaagctc tccttcacac gctcagagtt ttccatggca ttcccctacg tttccacgac 60

agtcgacgag agactagagg actcgttgct atccagcttt gccgagaact gcaacaatgg 120

tttcggaaga aaccgcatca cctacacaga cacgtgtacc ggtcaagatc tgaagaaata 180

ccacaacatg gatgccatca atgacctgtt agtgtcaggg gtagcgtcaa ggaaagccaa 240

ccacccaatt ggacaa 256

<210> 41887
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G11

<400> 41887

cacacacaaa agcaaaaagc atcatcacat taatggcccg cgcgtgtgtg ttcctcgtgg 60

tgctcctcct ggccgccgtc gcggtggcgc cgtttgcggg ggctgcgcgt gtggatgtcg 120

tggaaggcag gtccatggcg tccgccgacg cgcctgatgc ggcggctgac gcgcccgctc 180

ccggtcccga ctccgcctta ttcccggact cggcggtgga agcgccctcc aacaacagct 240

cattcgacta ggcgcgcaca acgcaattct tgtcatgatc tatctagcaa ataaaaagat 300

catatgtctc gtttgattct ctggaataac taatagtata tatgctgcgc ccggatgata 360

tataaatatg tgcatcaaat gcgtgcggca aacgcatgga atg 403

<210> 41888
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G12

<400> 41888

acacagagca gcatttcgag taacacagtt gttcacgacg atgggatccc tcgctaatga 60

catcatggtc gtgggcgccg tccttgcggc gcttgtcgtc ggcgggtcgt gcgggccccc 120

gaaggtgccg cccggcccca acatcaccac caactacaac ggcaagtggc tcaccgccag 180

ggccacctgg tacggtcagc ccaacggtgc cggcgctcct gacaacggcg gtgcgtgcgg 240

gatcaagaac gtgaacctgc caccctacag cggcatgacg gcgtgcggca acgtccccat 300

cttcaaggac ggcaagggct gtggctcatg ctacgaggtg agatgcaagg aaaaacctga 360

gtgctcgggc aatcctgtca cggtgttcat cacagacatg aactacgag 409

<210> 41889
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G2

<400> 41889

cgttggttgc tatttcgtag atccgcgaag tagagagcac ggggaagaca aagtaggcct 60

gaccctcagt cagactctcc agctttttga cgaaagacca gactagacac ctaagactta 120

catacgcttc atgagtgcga gcgaagtgtt atcactcaac gtgccaggct tagaagatca 180

gtagacgcag gactgaaaaa tacgcagat 209

<210> 41890
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-014-Q1-K1-G4

<400> 41890

atcatttgtc tcttacataa gagggatcat caagaatctc actgctgtgt tggagccaga 60

gaaagccggt gaattcaaaa agggcgtcta aggtgcaacc aagtttctcc ttatcaagcc 120

gaaagacctt caatttttg gtggtgagag cattaaagac caagcgttcc tggtattcga 180

ctattacaag gattgtgcca ctaattcgac attcctgtat ttctctcatg gtcttaatga 240

gatcaagtgc tagattagtt acccatgttg ggtactatat atgttctatt gttattgcca 300

caactatagc tgccctgcct gaactgaact cangattttt ttaag 345

<210> 41891
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G5

<400> 41891

aattattgtt tatcgtggcc tgtatttcgg actttacgat tctatcaagc cagttgtcct 60

cactggcagc ctccaggaca acttctttgc cagttttgct ctgggttggc tgatcaccaa 120

cggtgctggt cttgcatctt accccattga tactgtccgc agaaggatga tgatgacttc 180

tggtgaggct gtcaagtaca agagctcctt ggacgcattc cagcagatcc ttaagaagga 240

aggccccaag tccctgttca agggtgctgg tgctaacatt cttcgtgcca ttgctggcgc 300

tggtgtgctt tctggctacg accagctcca gatcctcttc ttcggaaaga agtactgctc 360

cggcggtgct taaatggaga aaaatgatga cgaaca 396

<210> 41892
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-014-Q1-K1-G8

<400> 41892

cttttgtatg aattcgggtc gacccagcgt cgaccaacag caagaccgtt tgcttggacc 60

gaacctttct tcgacgcaaa aagaacccca cccgcgtacc gtgagccgcg atggcgacgg 120

tggcgatgga catctcgaag cccacgccgg cagcgtccgg tgacgaggca gcggcggcgg 180

cgaaggggag agcggcgggg tggcgagggg ctgcggcagt ctacctgcac acatccatga 240

cctgcagctc cagatccggc agaagaccca taacctcaac cgcctcgagg cccaggcatc 300

gacctcaact ccgagttaga atgctcagga agagttgcag ttgcttaaga gcctggctca 360

tatgtgtgag gtggtgaagt catgngaaat caaagttctg gtgag 405

<210> 41893
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G9

<400> 41893

aatcaatcct tcaagcgcaa gctgcctcct cctcgtcgtc cggtcgtgag aagggatggc 60

gggccgtggc aaggctatcg gcgctggcgc cgcgaagaag gcaacgtcta ggagctccaa 120

ggccggactc cagttccccg tcggcaggat tgccaggttc ctcaaggcgg gcaagtacgc 180

ggagcgcgtc ggcgccggcg cccccgtgta cctcgccggc gtcctcgagt acctcgcggc 240

tgaagttctc gaacttgccg ggaacgccgc gagggacaac aagaagaccc gcattgtgcc 300

gcgccacatt cagcttgctg tgcgcaacga cgaggagctg accaaactgt tgggtggtgc 360

caccatctcg agc 373

<210> 41894
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H10

<400> 41894

cccacgcgtc cgggaagagt cagcaatgga ggcgaggatt gcaggagtgc ccgaagatga 60

agagtccggc ctcctccccc gcccgtccgc agccggccga cggccgtcct cccgcggccc 120

ccgcttcccg cctccaccgg cagcctgggc gacggtggac ggctccctcg ggcttccgct 180

ggaggacgcg gagggccacg cccgccgctt cttcatgtgg ggtttcgcgt gcctcccctt 240

cctctgggcc atcaactgct gctacttctg gcccgtcctc cgctcgtcgg tcgcctcctc 300

gcccgccgcc ttcgccccca tccgtccctg tgagaccgct acccccttctc cccgcttcct 360

cgtctcctct cttccttctc gcgcctgaga tctgatcttt cgtgatgcta gtatgtga 418

<210> 41895
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H11

<400> 41895

gtccttctca gttacttcga ccccatcatg ctggacgaga tgaagacacg caccgtcatg 60

ctcgccacgc tgctctccgt caccgacaag aaactcggcg tcctcaacta caccagggcc 120

gacgacgggc agatgtactt cggcgctccc ggcgcccccct gcgtggccaa gctcgtgaag 180

gtcgtcgcag cgcggccgta ctctgtgtcc atcatggaga tcagcgagcc cattttgccg 240

gccgcgttgc cctcccccgt cgcggcgccc ggccgccgcg gcaagggtgg taagcgcaag 300

atcaagccat cagcggcaac ccatgaggat ttcaacatga tcccgcgcaa g 351

<210> 41896
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H12

<400> 41896

tgacctcaag aaagtgtcgc tcttctcccg gactcgcatc tacgccgtgg cttccatcgg 60

cggattcgac ctccgcatcc cttcccacag cacccaagca gaccacagca acggctgcaa 120

cccctgctgg aacgccgtgg tacacttccc catcccggct gccgctgaca cccgcggcct 180

cgcactccac gtgaggctcc gcgcccagcg tctatacctg ggcgatcgcg acatcggcga 240

ggtgtttgtg cccatcgacg acctcctggc cggcgccgac aagggtggcg atccgaggcc 300

cgtgagcta 309

<210> 41897
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H3

<400> 41897

cggacgcgtg ggggcaagac catcaccttg gaggtggaga gctctgacac cattgacaat 60

gtgaaggcca agatccagga caaggagggc attcccccag accagcagcg tctgatcttt 120

gctggcaagc agctggagga tggtcgcacc ctcgcggact acaacatcca gaaggagagt 180

acccttcacc ttgttctccg cctcaggggt ggtatgcaca tctttgtgaa gaccctgact 240

ggaaaaacca taaccctgga ggttgagagc tcggacacca tcgacaatgt gaaggcgaag 300

atccaggaca aggagggcat ccccccggac cagcagcgtc tgatcttcgc cggcaaacag 360

ctggaggatg gccgcacctt agcagactac aacatccaaa aggagagcac cct 413

<210> 41898
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H4

<400> 41898

gggatttgga gtaaaaatga ctttgggcgg aatggatttg tggtccatat taatacgaca 60

aaagactcca ccgattacct atgggacaca acaagtttta gagtggattg aaagtactcc 120

tcaaaaggga tccatgctgt ccttaatatc gactccaatg gccatggtgt tcatgctttc 180

ttgaataatg tgctcataag tagtgcatat ggtaatggct cacaatcaag attcagcgtc 240

aaattgccca tcaacctgat gactggaaag aatgaacttg cccttctaag tatgactgtt 300

ggtttacaaa atgcacgatt cgcttatgaa tggataggag caagctttac aaatgtgaac 360

a 361

<210> 41899
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E4

<400> 41899

ttggactccc aacaacggga ggtgttacac ctgccccagc agcagaggct gaattgaaag 60

ccagtgcttg attttttttt ctgtgttccc tgagatcata tttggtggag tggaattgta 120

tcagccggtc gagagcttag ttcccgaatc ttttttaatc ttaacggaaa atttgtccgt 180

catccttctg atgagaggaa ctcattaaac aggcgaaata ggtctttttt tgcgctggga 240

aaagtttacg cttgatgcat aataatttgt aggacggcaa cgctctagag cgcaggtttt 300

gttcaccttc tgtaccgagg aatgcttaaa gttacatttc acattatggt cttt 354

<210> 41900
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E5

<400> 41900

gccaattgtg gagccagaga ttcttcttgt tggagaccat gggatcgagg gagctcttga 60

ggtggcagag aaagtgtggt ctgaggtgtt tttctactta gccgagaaca atgttctgtt 120

tgagggtatc ctgctgaagc ctatcatggt caccccctgga gctgatcaca aggagaaggc 180

ttctacagaa gccattgcaa agtacacgct aacaatgctc agaaggagag ttccttccga 240

tgttcctgga atcatattcc tttctggtgg acatgccgat gtggacgctt ctctgaacct 300

gtatgctatg aaccagtctc tgaacc 326

<210> 41901
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E8

<400> 41901

ctgcttcttc tagctcatgg cctgtccatg ccaggtcgcg ctggctgcgt ttcatttcat 60

ggaagaaagc aaggatggat cacaggttgt cgttctgcta attaatctac atacgtttgc 120

cttcaagtac tgtgttgtgg cattgttaca catcacagta cagtttggtc aaatttttt 180

tccacagagg aagtagggat tgatttaatc attgatttaa tcccacacgc gtgtatctac 240

gtatacagtt tgtataacat gaaccacctc tgtttgcgat tggtctaaaa ataaatataa 300

tacttatata ttgaattgtt ttgc 324

<210> 41902
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-F10

<400> 41902

cgctcagatc tctccgcccg ggtccatttt cttaccccaa accttctccc gcctctctgg 60

tcgacgccgc ccgacgagag ggatggcggc cttgcgggct ccggccgcaa cgctcctcgt 120

cctcctcgcc ctagcggcgg ccggcggcgt ggcggccgac ggctccgatc accggtacaa 180

gattcgcgag cccgtcccgc tctacgccaa caaggtcggc ccatttcaca atcccagtga 240

aacatatcga tatttcgacc tgccttttctg ctctcctgac aaagtgaagg agaagagcga 300

ggcccttggg gaggttctca atggggatcg gttagttgat gcgccttaca aagctgattt 360

ccgtga 366

<210> 41903
<211> 318

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-F11

<400> 41903

ctcctccccc tccggttcgg gttcgggttt gttaggttct ccggggttcg gtttcgtggg 60

tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg gcggcctcgc 120

ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg aggtcctcga 180

gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcggct tcgtcacctt 240

ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg agctggacgg 300

ccgcaacatc accgtcaa 318

<210> 41904
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-F2

<400> 41904

aaaacgagtg agaggggga aatgctgcgc cacgccgtcc gccgtctcgt ctcccgcacc 60

gtcgcggcgc ccaccgtccg ccgggcgctc gtcacggcag aggtgcctgc ggaggccgcc 120

gaggactcca cgtttgtgga gacgtggaag aaggtcgccc ccaacatcga gcccccaacg 180

acgcccctct tcctcatgca gccgcgcccg cccacgccgg ctaccatccc cactaagctc 240

accgtcaact tcgtcctccc ctacaagtcc gagatcgcca acaaggaggt ggacatggta 300

attgtaccag ctacaactgg tcagatgggc gttttgccag gccatgttgc cacgattgca 360

gagctcaagc ctggtgttct ctcagtacat gaggggaacg atg 403

<210> 41905
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-014-Q1-K1-F4

<400> 41905

cgagaggaga accagcagcc tccaataaga gccagccaga gaaactaata aaactctcgc 60

cgccgccatc cgagcgaaca agccaaccga ccccgtcccc aaggcaatcc gccgccgacg 120

taccaccacc accgcaggag cgagatggag atgaagagga tcctcttcgc cgtcctcgtc 180

gtcatcgccg cctcggccac cgcagtgctg gccttcaccg aggccgccgt cgcgggcgcc 240

ccaactgcct ccgagtcgtc cgccgaggct cccgctggcg ctggcgctgg cgctgccgct 300

ggcgccgtcg cctcggggcc cttcgccagc agcggcgcgc ccgtcctcgc cgtcgcgccc 360

gccgcgctcc tcttctccct tctcgcctac tacctncact aagcgtgtgc gtgcgtacgt 420

acgcgc 426

<210> 41906
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-014-Q1-K1-F6

<400> 41906

cgaggtgctc tccaaccaca ccttctacta gctctacctg ggccagcgcg ccaccgcggc 60

gtggaccgac gatggggagg tgctgcagct gctcgacagg ttccgggagg agctccgccg 120

ggtggagaag cggattacgg agaggaacag ggacccgcga ctcaagaacc ggaagggacc 180

cgccaaggtg ccgtacacgc tgctgttccc ggacgtcggc ggcaaggaga aggggatcac 240

cggcaaaggg atacccaaca gcgtctccat atgacaattg acaagctcgc tccttttttt 300

ttattgcttt gttgcagagg atctgattat ggatgtcggt ttaatttcgt tgtgagcatc 360

attgtgttaa tatgtcntat tgcgatgatt ggtttg 396

<210> 41907
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-014-Q1-K1-F8

<400> 41907

caacatggag ggccttattg cagtgtttga cctgcgtggt ggcacatttg atgtgtcaat 60

ccttgagata tcaaatgggg ttttcgaggt caaggcaacc aatggtgata ctttccttgg 120

tggtgaggat tttgatggtg cactgcttga atatctggtt agcgagttca agaagtcaga 180

caacattgat ctgagcaagg acaagttagc actgcaaagg ctcagggaag ctgctgagaa 240

ggccaaggtt gagctttcgt ccactatgca gactgaaatc aacctcccat ttatcactgc 300

tgatgcatct ggtgcaaagc acttcaacat taccttgacc agatctaagt ttgagtctct 360

tgtgagcaat ctcattgaga ggactcgcat ccctngtgtg aactgcctca aggatgctgg 420

catctc 426

<210> 41908
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-F9

<400> 41908

gccatcaccc tttcagtctg ctaaacattt catacatact ggatatttcc aagaaactga 60

aggcaaggca cgtggttccc ccagagaaat ttgtggaggc actgaaactg atggagcacc 120

gctatggggc aagagatttc gtgacgagtc aagatacaag tctgctatcc gcaggcacat 180

actatctcac gcacgttgac tccaagtaca gaaggttcta cgacgtgaaa ggtgacggtg 240

tcgccactgc aatgtccaac ggccactgat ctttcttctg cccgaagctg caacaagtca 300

aataacagag gcaagtgtcc taaacatcct tagatgatta tatatctatt aagaggggaa 360

gctcgagtta tagattaatc tatgcccagc tg 392

<210> 41909
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C7

<400> 41909

gctccgtttc gccgcatagc cgagaggaag caggcggcgg cgagaatcca gtagaacgcg 60

agcagacggc ggcgatggca tggcgggcga gcctgtctcg gagtgtaaag gagatacgcg 120

tcctcttctg ccagtcctcc cccgctagcg cccccgcccg ggagttcgtg aagaagaact 180

atggtgacat caaggcccgc aacccctccc tcccttcct tgtccgcgag tgctccggtg 240

tccagcccca gctctgggcg cgctacgata tgggtgtgga gagatgcgtg aacttggatg 300

gtctgacgga agcacagatt gataagaagc tggaggaact tgcaatggcc ggggagtctc 360

ttaaaaccaa atagttttgg aactcgtatc at 392

<210> 41910
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C8

<400> 41910

cagcagcctc caataaaagc cagctcattc aaataaaacc gagagacctc agccctcagg 60

caagccgacc gtcgacgtac caccgcgcca acccgagaga aagatggaga tgatcaagag 120

gatcctcatc gccgcgctcc tcgtagtcgc cgtctcggcc accgcagtgc tggcctccac 180

cgaggccgcc gccgtcggcg ccccagccgc ctccgagtcg tcggcgtccg ccgaagcccc 240

cgctggcgcc gccggcgccg gcgccggcac cggcaccgtc gcggtgccct ccgccagctg 300

cgccgtgccc gccctcgccg ccgatcccgt cgcgctcctc ttctacctgc ttgcctacta 360

cctgcactaa tc 372

<210> 41911
<211> 112
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C9

<400> 41911

gatggattat agatcctgac atatttatct tttattttgc aagacttccg ctgtgtaata 60

aggactctga ttatattgtg tcatttatct ctattcacct tgtgatttta tt 112

<210> 41912
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-D10

<400> 41912

ttttgagca gtaaagttat gctataaatt atagtataaa tgaaataatt tggaacgtgt 60

aagtatgtca aaatattagc tgcaaagcta cattatgcta gaacccagtt accaaattct 120

aagtcaaaaa ttccattgtt ccttaaaaaa aattggaggc tcaaaagtag aacaagctcc 180

ggggttaatt tggtccgtgg gttaaaagca tttgacaaca ttattaatcc ttgacaattt 240

taaaacctta ag 252

<210> 41913
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-D12

<400> 41913

ctaccctcgt cgtcgtctca ctcacccctc cttcacgcct ccctcaccaa ataaggtccc 60

gccctttttcc gacattcaca ggggggacag gaaatcagcg gccatggcct cgattccggc 120

gacgaccttc gccgtcatct tatccgtcct cttctgtgcc gcggctggca ccgccgtcga 180

caacgacctc cccgactacg tcatccaggg ccgcgtctac tgcgacacct gccgcgccgg 240

gttcgtgacc aatgtcaccg agtacatcgc gggcgccaag gtgaggctgg agtgcaagca 300

cttcggcacc ggcaagctcg agcgctccat cgacggtgtg accgacgcga acggcacgta 360

cacgatcgag c 371

<210> 41914
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-014-Q1-K1-D6

<400> 41914

ggcaagaatc atgctttaag aagggtgcta tcacaggcca cagagataat gcaaccaaca 60

accatagttt aactctcaca aatggtgcca gttgcggcta cctagagtgc aggaatggcc 120

aacataaact ctgaaatacg gtcatgactc atgaggggaa acaattgagg tagtgaaaac 180

aggtaactgc tggaagaaac ggaaacagaa accaacagct acaccgaata tttctccagt 240

accacgatac atctaatgca tgcccaaact ctgctatctt caatgttcaa cccggcttga 300

accacaagca gatactgtcg aatttccgta ctgtacttgt atcattcctc acagttcatg 360

tctttatgcg caccacatac gaacatgnct gaaggtttga catgtcagca gagacagaac 420

acgaaatttc 430

<210> 41915
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-D7

<400> 41915

cggacgcgtg ggcgagctcc tggttgaagg gcaggtactt gcgcttcccc tgcgtcgtgc 60

cggagctgag ggagatggag gtgatgggct tggcggtgag cacgggggac gtgtcgccgt 120

cggcgatgcg cgcaatgtag ggctcgatgt cggcgtgcgt ggcgagcggc acgcaggcgc 180

ggaagctggc ggcgtcggtg cggcccgcga ggccccggca gcggaggtac tcggcgcagg 240

cgttgtctgc caggatccgg cgcagcgtgt cgcgctgcac ggcggcggcg tcccgcgtga 300

gggactcgaa ctcggcgatc accgtctcgc cgcagaacgc ggcggcctgc gccttcttct 360

ccggcatggc g 371

<210> 41916
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-D9

<400> 41916

cggacgcgtg ggcggacgcg tgggcggacg cgtgggggag aaacattctc caatatttca 60

ccgaacgccg tgaatgctgt cacgtggggt gttttccctg gcaaggagat tatccagcct 120

acggttgtgg atcatgcaag ttttatggtt tggaaggacg aagcatttga aatctggact 180

cgggggtggg gttgcatgtt ccctgagggt gattcatcga gggagctact agagaaggtt 240

cagaagacct actacctggt cagcctcgtt gacaacgact acgtccaggg ggacctgttt 300

gctgccttca agatctgatt atgctctcat ggtctgtatt gttgtatggt tggacccaac 360

aatattcttg catccccgac tacaggtctg atcgccatga aagcttctgt tc 412

<210> 41917
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E10

<400> 41917

atggctcatg gctgccatcg tctaggctca acatccgaaa gacgggccat ggtcggttgc 60

ctgcctcacc ccagcggcgg acatctatcc gaaaataggc cgcacctcgt ccgctttgct 120

ccttgttcat ccttcacctg ctgatggcgg cagcggcgcg gccatccaac gccactcttc 180

tcgcgcgcct tcgggacggc acggccaagt tcgagctgct ggatgactct gcgtttgcgc 240

ttgcgcacgc gcccccggcc tggccccgac ttcactgctt tgccaggatt gccccctcgt 300

tgaggggtgg gtggtcggca gcgttgaaca aggtggagca ttacggggtt cagagggtta 360

ccggcgatgg ccggtgcatg tttcgagcgc tggctaaagg aatggcaaaa 410

<210> 41918
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E11

<400> 41918

gacgtgaaca tcaccgcgcc cgccgacgtt gagaacacgg acggcgtcca cgtcggaggc 60

tcctccaaga tcagcatcct caactcgacc atcggcaccg gcgacgactg cgtctcgatt 120

gggcccgggt gcaacggcgt cttggtggac agcatcacct gcggccccgg gcagggcatc 180

agcgtcggct gcctaggccg ctacaaggac gagaaggacg tgagcgacat cacggtgcgg 240

aactgcgtgc tcaagaacac caccaacggc gtgcgcatca agtcgtacgt ggacgccgag 300

tccgtgctga cgggcctcca tctcaccttc gagaaca 337

<210> 41919
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E12

<400> 41919

ggagaaccag catcctccaa taagagcttg tcttagaaac taataaaact ctcgccggcg 60

tcgtccgagc gaacaatcca accgtccccg ttcccaaggc aatccgacgg cgacgtacca 120

ccaccaccgc aggagcgaga tggagatgaa gaggatcctc ttcgtcgtcc tcgtcgtcat 180

cgccgtctcg tgcaccgaag tgctggacta caccgaggcc gtcatcgagg tcgccccaac 240

<210> 41920
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C6

<400> 41920

gtgacgtgaa gcaggcagaa gctgtgccac ttcttccaaa gaagattgct ccggccaaag 60

agcagaagcc taaggaagcc aaaaaggagg ccccgaagcc taaggaagct gagaaaccag 120

cagaggaaga ggaggctcca aagcctaagc caaagaatcc ccttgatttg cttcctccga 180

gcaagttgat tcttgacgat tggaagaggc tgtattctaa cacgaaaacc aacttccgtg 240

aggttgctat taaaggtttc tgggacatgt atgacccaga gggctactcc ctgtggttct 300

gtgactacaa gtacaatgac gagaacacag tgtcgtttgt gactatgaac aaggttggtg 360

gcttcctgca gcggatggat ctgtgccgca aatacgcctt tggcaagatg c 411

<210> 41921
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B12

<400> 41921

cggacgcgtg ggaaatcgta cagtgaatat aatgtgcaca agagtgtcaa atatggtgtt 60

tgggctagca ccacaaatgg aaacaagaaa ctggactcag catatcgcga agctaaggag 120

aaagaagagc actgtcccat tttcctgtta ttttcggtga atgccagtgc acaattctgt 180

ggtgttgctg agatgactgg accagtggac tttgagaaaa gtgtggatta ctggcagcaa 240

gataagtgga ctggtcaatt ccctgtgaag tggcacatag tgaaggatgt tcccaataat 300

cttttccgac atataattct tgaaaacaac gacaataaac ctgtaacata cagcatagat 360

acacaggagg tgaaactaga gcaaggaatg 390

<210> 41922
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B3

<400> 41922

cggacgcgtg ggcggacgcg tgggcggatg cgtgggggga aaacacgtac attcacccgg 60

cggcaataat ggcctcggtt ccggctccgg cgacgacgac cgccgtcgtc atcctatgcc 120

tatgcgtcgt cctctcctgt gccgcggctg acgacccgaa cctccccgac tacgtcatcc 180

agggccgcgt gtactgcgac acctgccgcg ccgggttcgt gaccaacgtc accgagtaca 240

tcgcgggcgc caaggtgagg ctggagtgca agcacttcgg caccggcaag ctcgagcgcg 300

ccatcgacgg ggtcaccgac gcgaccggca cctacacgat cgagctcaag gacagccacg 360

aggaggaca 369

<210> 41923
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B4

<400> 41923

cggacgcgtg ggcgagagag gaacgcgaac aaccaacgat cgcctcatcg ccatggctcg 60

ctctgtcccc atcgccgtcg ccgtcgcgcc tctgctcctg ctcctcctcg tctccactgc 120

gtccgctgca cggaccgtgg gcgacaccgt gcaggacgcg tgcagcaaga cacaattccc 180

caagatctgc gtggacagcc tcgccgcaaa gccagagagc cagaaggcga ccccgcgccg 240

gctggcggag ctgttcgtga acatcgcggc cgagaaggga tccgggatgg ccacgttcgt 300

gcacgggaag tacaacaacg ccaaggacag caccgtgttc aagtgctacg acagctgctc 360

ggacgacgtc ga 372

<210> 41924
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-014-Q1-K1-B9

<400> 41924

tgataatcct gaacccgaaa gctgaacttc cacacacaac aaataactga cgcaggcgat 60

ccatcactcc acacaccggt cggaaccgag gccaaccaac gacgccgccg ccaatgtcgt 120

cccctgcagc gccggtgcag ccgccgccgc cgcgcgcggt gcgcttcggc gtcctgggat 180

gcgctgacat cgcgcgtaag gtctcgcgcg caatgctgat gctccctccg ggcgccgcca 240

ccatcgccgc cgtaggcagt cgctccgatg acaaggcccg ccgcttcatc tccgaaatcg 300

gcttccccgc ggcgcgcgtc cacgggtcct acgagtctct cctagaggac ccgtacgtgg 360

aggccgtgta cctnccgctc cccaccagtc tccatgtgcc 400

<210> 41925
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-014-Q1-K1-C1

<400> 41925

gctccctcga aatggaggcg acgagcaagg cgatggcttc aggcctcctc gttctgctgc 60

ttctcatcaa cacaggcttt gtcctgcccg tccattccga ggactgctgg gccgacaccc 120

gcgtcatctg caccaagacg cacaactgcc gggacgacac ttgcgcgggg cgcggcatgc 180

cggacggccg ctgccactgg gagttcccca acctggtgcc cttctgccag tgcctgcgcc 240

ccaactgcca ctagtccggg cgcctcggat tggctcactt cgccggcgat gatggatggt 300

gcccaactgc gactgcccag tctgctccat tcgttgttgt ttaaggcata atatataaac 360

tgccaaattc acatgtattt tgggatattg gntatcatac tatgaaat 408

<210> 41926
<211> 423

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C10

<400> 41926

cggacgcgtg ggcaatgaac aagtatggtg ctgtccttga tgattttggc ctggaagcta 60

tgctgaacca gttcatggaa cagttcatag ctccaatttc taaagttctt tatcctgagg 120

ttggtggagg aacattggac tcccatcacg cttttattgt tgaatatggg aaagacaggg 180

atgttgaact aggttttcat gttgatgatt cagaagttac attaaatgtt tgccttggaa 240

aacaattctc tggtggtgaa ttatactttc gaggtattcg gtgtgagaat catgtgaatt 300

cagagacaca acatgaggtg acttctcatt ttacttcaac aactttctta tctacccatg 360

catggaaatg tatgactaca cacatattcc tggttgggct gtactccacc atggtcgaca 420

cag 423

<210> 41927
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C11

<400> 41927

aacactggtt aacccgtgtt gagatccgca ctgcaccaga gcttttggtg accctacttg 60

ctacttccac ttgcactcgc cggattgatg aagctcctgc atgcattgca tgcggagtct 120

tcaaggggat ttcagctggc actcatgcat tcaagtaaag gctccaattc gagataccgg 180

tgcgtttcaa taagcaggtt caacagtatc tttcgttaaa aaaaacagct ctgcttttcg 240

ggcggctgct atgtcgcact gcacaatgtg gcgtatcgca acgatggcaa actaatgcct 300

<210> 41928
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C12

<400> 41928

agcagcacca ccatcggcgt cggcgacgac tgcatctcca tcggccccgg gagcaagatg 60

atccgcatcc atggcgtcaa gtgcggccca tgccacggct tcagcggtcg gaagcctggg 120

cccctccaag gccaaaaagg acttggaaaa cttccagtta acgggttgaa caaccgccgg 180

aacaacgaac ggcctgcgca tcaagtcgta cgaggactcc aagtcgtcgc tcaaggccag 240

caagttcctg tacgagggca tcaccatgga caatg 275

<210> 41929
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C3

<400> 41929

cgtcaaagaa acaagtgcac acaaataaat acatcgctca ctagattgcc aagagcaatg 60

gcctctaggt catccatcct gctcgtcatg gtggtgctag ctacgctatt cgtggttggt 120

tcgtgcacca ccccgctcac cttccaggtc ggcaagggct ccaagcccgg ccacttggtc 180

ctcaccccca acgttgccac catctctgac gtggagatca aggagcacgg tggcgacgac 240

ttctccttta cgctcaagga gggtccgact ggcacttgga cgcttgacac caagaccccg 300

ctcaagtacc ccctctgcat ccgcttcgct gtcaagtccg gtggctaccg catcgccgac 360

gacgtcatcc ccgccaattt c 381

<210> 41930
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C5

<400> 41930

cccgatcgcc accgtcgacc ggactcccct caaaggcggc cacagcacag cgagcatggg 60

agaccggcat cagcatgggc ctggcagcgg cgtggaggac ccggcgacgc tgctgcggcg 120

ggtgcagacc cgcgcgccca actcgacgca ggtggtgggg ttcctgacgc tgctcgtctc 180

tggcgccgtg ctgctgctgc tgacgggggt gacgctgacg ggcgccgtgg tggcgctcgt 240

cttcctgggc cccatcgcgc tgctcaccag ccccatctgg gtgcccgtcg ccgtcgtgat 300

ctccgccatc gtcgccgtcg cgctctccgc ctgcgccttc gccgtcgtcg cgctccccgt 360

ggccacctgg atgtaccgct acttcacggg ccgtcacccc gtgggcgccg accgggtgga 420

ctacgcgcg 429

<210> 41931
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B11

<400> 41931

tgtatttcta cgatttgaaa tatagtttgt ttgggacggg agcgagtaat tctcagactc 60

ctgatgtgca cagtcacttt ttcctcataa tacatccagg tggggttcct cccccagttc 120

actctataaa aaaactatca cacctacggt cacaaggttt cgtagaaata cagttaggtt 180

gggacgggag cgagtaattc tcagactcct catgtgcaca gtcacttttt cctcataata 240

catccaggtg gggttcctcc cccagttcac tctataaaaa aactatcaca cctacggtca 300

caaggtttct accccgtcga tatatatata caaatggatt gcataaaaga aattatagag 360

ggcgagaaca ctctgccgta tcagtcttga taactctg 398

<210> 41932
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-H10

<400> 41932

gaaggttgtg agctgattag caaaacatgg gaaagtttcc atgatgtgaa gctcagtgac 60

cggagtctca tttggaactc tgacctgata gagacccttg agctggaaaa tcttttgata 120

aatgcatgca taaccatgta ttcggcagaa gctcggaagg aaagcagagg agctcatgct 180

cgtgaggatt tcacgacaag agatgacgag aagtggatga agcactcact ggggtactgg 240

gaaaacgaga aagttcgatt ggcatacagg ccagtgcaca tgaacacatt agacgatgaa 300

gtagagtcct tcccgccgaa agctcgtgtc tattgatcga ttcaagcctc acacccttcg 360

ggaattccgt gtaaggtgtt aataaagcag atgggcgttc cttgctgaga acatgatctg 420

aac 423

<210> 41933
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-H3

<400> 41933

ggaggatctg gaggacaaag atgaaacata aaaagaagag aaggaaggac aggaaagaag 60

caatggccaa tgcagaggag atgagtcaac caaagctagt gaaaagatat ggaatgagct 120

caccccaccc cagagcatca agaagctggt aatcaagaac tacaaaggcg taaagtttcc 180

aaaatggata aaaggtccca agctaggaga ctccttcccc agccttgtgt ttttggatct 240

tgaaaactgc atgtcatgta ctaaactgcc ttcacttggc ctcctgagtc aactccagtc 300

cctgcaaatc tcaaatgcag actcagtca 329

<210> 41934
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-H8

<400> 41934

cggacgcgtg gggcaagaaa tggatcctac catgccagta ctagcaaaac cacaatccga 60

aaggattcaa gccggggtcc cattggtaat aagccacctt tcaaggattc gaatgatgca 120

actctgagga agagcagggg tagcctcaaa gcaccattcc ttaaagaatg gcagaccaaa 180

attcttgcaa aggcag 196

<210> 41935
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-H9

<400> 41935

gaaagattgt ctggtttcct tgagaaagat tttcaacttt ttaccgatga tgaggtcatg 60

gagacaatga agcatgtcat caatctttcc aatgtggttg ataggctctg caaacaaatg 120

tatcagtgca ttgagaatga tttgttatat cctctacgca cacctcacaa tatcgctcca 180

tacaaatcta aaggccttga cagggcctca gagctcaata ttaagctgga tcctgctgaa 240

caaagttcac agtcaacaaa aca 263

<210> 41936
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A11

<400> 41936

cggacgcgtg ggcggacgcg tgggcggacg cgtgggctgc cgtcttctgg gcaagttcga 60

cctcaatggc attccgtcag ctccgagggg cacaccccag atcgaggtga ccttcgaggt 120

ggacgccaac ggtatcctga acgtgaaggc ggaggacaag ggcacgggca agtcggagaa 180

gatcacgatc acgaacgaga aggggcggct gagccaggag gagatcgacc gcatggtgcg 240

ggaggcggag gagttcgcgg aggaggacaa gaaggtgaag gagcggatcg acgcccgcaa 300

ccagctggag acgtacgtgt acaacatgaa gaacacggtg ggcgacaagg acaagctcgc 360

ggacaagct 369

<210> 41937
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A12

<400> 41937

gaccgccggg gatgtcgagg tgctctggtc gagagaaggg ggggtcggag atgtgagcag 60

agatccgcgg cgcttaaccg gtcacgccgt cgtaaaccct gggaattttc cccggaatca 120

agccgccacg agtacccgcg tggcatggtc agaattagtg ttgtgccgta gctgcgaggt 180

tacgagtcac ttgaagacca agttggtacc tgggaatctc gagtctaagg tcaaggacag 240

gtaccacagg atgaggcgca tgaaggatga tatgatgagt tc 282

<210> 41938
<211> 357

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A2

<400> 41938

atcgtgcgag catatccacg gcgatggagg cgagagcggc catgagctgg tactgcggct 60

cccttctggc cgtggccatc gcgctgttcc tgtccgtgtc cctcggcgtg cgcgccgtcg 120

gcgccggcgc cggcgtcgac atcaaggtgt cgtgtgcagc gacgccggac ccggacgtgt 180

gcctactcgc gctccaggcg gacagcgact ccaagacccc gcgggacctg gcggaggcgg 240

cgctccgcgc ggcgacgacc gcgggcggcg cggcgggcga ctacgcgcgg cacgagatgg 300

acgtggtgaa ggacaacgac atgtggcagt gcctgaacga gtgcgccggg gagatcg 357

<210> 41939
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A3

<400> 41939

tccgggtcga ccacgcgttc gggcgatgca gcatctacaa gactagagat tttatcacgt 60

ccataaactg gaactgcggg tgggttttcg cagaggacat ggggctggac ctatacgcgt 120

ccctcgacat gcgcgccggc agcgccggcg cctgcgtcga catcaaggag tcttgtgcaa 180

agacaccaga ccctgacgtg tgcctactag cgctacatgc ggacaacgac tccaagaccc 240

atcgggacct gtcagatgcg gcgctacgcg cagagacgac cgctgtcgaa gcggaggtcg 300

actacgctcg gaacgagatg gacgtggtga aggacaacga catgtga 347

<210> 41940
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A6

<400> 41940

gggtttcaac gctgtttccg tatcatgcta atggtccgct atgaatatct atgcatgcat 60

gggtaccgtt tgcggtattt aattattatt acttcgtaga ccttactatt taaaattcaa 120

gcgttctcgt taaagtcctc tgtaatcttg cgatggaata tatttgatac attcctttta 180

aaatcattcc attgaaatgc cattggtcct agcctcaaac cgtgactacc attgtattga 240

ccgaatatat attgaatgcc tcttt 265

<210> 41941
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A9

<400> 41941

atggcctcga ttccggcgac gaccttcgtc cgtcatctta tccgtcctct tctgtgccgc 60

ggctggcacc gccgtcgaca acgacctccc cgactacgtc atccagggcc gcgtctactg 120

cgacacctgc cgcgccgggt tcgtgaccaa tgtcaccgag tacatcgcgg gcgccaaggt 180

gaggctggag tgcaagcact tcggcaccgg caagctcgag cgctccatcg acggggtgac 240

cgacgcgaac ggcacgtaca cgatcgagct caaggacagc cacgaggagg acatctgcga 300

ggtggtcttg gtggagagcc cgcgcaagga ctgcgaccag gtgcatgcgg acagggaccg 360

cgccggcgtt ctgctc 376

<210> 41942
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-013-Q1-K1-H1

<400> 41942

agggagtcca ttgagttacc acttatgaat cctgaactct ttcttcgggt gggaattaag 60

cctcctaagg gtgttctact ctacggtcct ccaggaactg ggaagaccct attggcaagg 120

gctatcgcaa gtaacatcga tgccaacttt ttgaagattg tttcaagtgc tattatcgac 180

aaatacattg gagaaagtgc tcgtttgatt agagaaatgt ttggctatgc acgtgaccac 240

caaccatgca tcatcttcat ggatgaaatt gatgctattg gtggtcgaag atttagtgag 300

ggaactagtg ctgatcgtga gattcagcgg acgttgatgg agctncttaa ccaattagat 360

ggatttgatg agctaagaaa ggtaaaaatg atca 394

<210> 41943
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B10

<400> 41943

gcgacatcaa caagctccta ccggcgctta tgatacccgt gcgcatggtg gcgctccccc 60

gcttgtgcgt cgtccccttt ccaagagcca agattcggcc gtgcattaaa aggcatgtgc 120

caccttgaa cccttcattt tcaacaacgg gttcgtcaaa atcattaacg gcgaaatcaa 180

caccgttgac ttcacccggg acattaccac cggagttaac ggcaacttca ccagcgggat 240

taccaccag 249

<210> 41944
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F2

<400> 41944

gcaaacctgc agtcatctcc tccatcacca ccaaactcaa caacagccag ctcgcgaaaa 60

taatgaagag ccgcagcatg gcatcatcgg ccgcgctctt ggtgctagcc ctcgcgctag 120

tggcggccac cgccccacag gtagcggagg caaagaagaa gagagcggcg gagagcggcg 180

aggcggcgga ggcgaagaag atccaggacg acttctgctc gacgctgtgc gagggcaaga 240

aggggacgga cctggtcgtg tgcaaggagt cctgcgcgct ctcccagcag tccaacctgg 300

tgctgtacgg caggatccag tgcaagggca agtgcaccga gc 342

<210> 41945
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F3

<400> 41945

gagtacagta cctttggcga cagcttccat tatttcttct acactcttaa gaagggcagg 60

aggtcactgg agtccagcag ttaccaaaac acattaccat cacctgttgc tccaagaata 120

aatatggtcc acgaagagct cgagagcgag gattttatat tcctcacaaa ccttgatggg 180

ttgtgagtgg ctgcttaaac aagcatctgg ctaacagcct aacacatcaa aagggtgacc 240

aggccagcgt tggtgaccct gcagtgatgt ttttttcctg ggcggcaaat gagaatgatg 300

cctgtaaaat gtgtaattta ggatagattt aaattttgag ctttgttgtc tagtaatact 360

ataatactct atattactgc aagctagagg tctgtatgat cttgtaaaaa ttagtattac 420

tttccttttg aaatctaatg cttc 444

<210> 41946
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F4

<400> 41946

gaatgtcctt gccagaacaa agcgtgagtc agagaacacc aagaagtatg ccatgcagag 60

cttctccaag agcttgttag atgttgcaga caatttgtct cgggcatcat ctgttgtcaa 120

ggcaagtttc tcaaagatag attcatctaa cgattctgat gaagctgtaa cactactgaa 180

aaccctacta gagggtgttg agatgactga gaagcaactt ggagaggtct tcaagaagtt 240

tggagttgaa aagtttgatc ctttgaatga gaagtttgat ccaaataggc actatgccat 300

tttccaaatt cctgatcctt caaaaccatc aggaactgtt gctgctgttg tgaaggttgg 360

ctacatgtta catgatcgtg ttcttcgccc cgctgaagtt ggtgtcac 408

<210> 41947
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F6

<400> 41947

cttgaatgga actttcttga actcccatgc agttcatcat ccagatgctg agtgtaggca 60

ttggggtgaa cctgctgaac ttgcacatgg tgatattata actctaggga cttcatctaa 120

actatctgtt caaattacac tgcaaaatca acgagttcct gctggtgttg gtatggcatc 180

cgatccaatg gtggcacgta gaagtggaaa gaaacttcca atggaagaca taagcttttg 240

ccagtgtcct ctgcagggtg ttgaacattt tgggctcttt ggaatttttg atggacatgg 300

tggggatgga gctgccaaag ctgtcagcaa gattcttcca gaaaatctgg gatacatgtt 360

atctcatcct gaaacaaaag aacgagtgca gtcatgttct gatgcttctg atgttcttag 420

atatgctttt actttgacag a 441

<210> 41948
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F8

<400> 41948

gagagagtct cgccatggtg atgggtcatc tctgcagaaa tctgcatctc cccgaaggag 60

atctacaccc cctcgaagaa gatctatatc ccctcgaaga tcctcacaca agaagaggga 120

atcaccaaga aggggagact cacctaagag gaagcactca cctaagaaga aggagtcacc 180

aaagaagaga gactcaccaa ggaagagaga ctcaccaaag aagagggatt caccaaagag 240

gaggagggac tccccaagga agggggggata ggtcaaaatc aaggtcacct tcaaagaaac 300

atgacacttt tagacataaa aaagaacat 329

<210> 41949
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F9

<400> 41949

ctcctattgt ggcccggtgc cttactcttg gctcctccct tggactgagt agtagtggga 60

tggacatcaa ccttggatgg agctccccac tggcacttca cgaagtccag caaccttgca 120

ctgaccttgg tctgaattga aggagagtat atgttacact atcaacatat ggatttttaa 180

ccttttttgtt tcttctcgat gacttggcta ctgtctttac tcacaattca aacttgtgat 240

tttatttttt 249

<210> 41950
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G1

<400> 41950

aaagaaggca gagagtgcaa atgttagtag agatgtatct ggagaaggtg ttcaacaagc 60

attgttgaaa atcctagaag gaactgttgt cagtattcct gagaaaggat cacgcaagaa 120

ttctcgcaat gacagtatac agatagacac gacagatatt ctttttatat gtggtggtgc 180

ttttgtggac ttggaaaaga ctatttctga aaggcgccaa gattcatcca taggatttgg 240

ggcacccatt cgtacgaaca tgagaagttc tggagctagc tgtccaatgg ttacctcatc 300

tttattagaa tctgttgaaa gtggtgatct tgtaagatat ggtctaattc cggagttcat 360

tggtcgtttg cccattctag taagtttggc agctctgaat g 401

<210> 41951
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G10

<400> 41951

aaaaaaaggt caatatcggt tactgtcatg gagagaagtg catactgcag ttccctattg 60

attgtatggt acattttctg taagaccaca gagaattgca ggagaatcat ggcctcacta 120

cagtcctaca gtggtgtggc aataataata catctgggaa gtccatgccc agccacaact 180

ttcccatatt atccaaagaa taaacagagc tttacggaga aataagaaaa accaaacaac 240

tagaacctcc taatctgcct ttgtcaactg caaaacatga aaggcgggaa ctggtctgca 300

gcactagaga gtaacaaggg taaagatgac ttgcattata taaagtatga actcttcgac 360

aggggtataa atttcaatgg atcttgtgca 390

<210> 41952
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G2

<400> 41952

gcgcaccgcc tccccgtgtc ccctccttct cgcccggcac cgtcgagctc ggctgtggag 60

acagaacaaa cccatcaacc atggcgaact cggcgtcggg gatggccgtg agcgacgagt 120

gcaagctcaa gttccaggag ctcaagtcga agcgaagctt ccggttcatc acgttcaaga 180

tcaacgagca gacgcagcag gtggtggtgg acaggctggg gcagccgggc gacacctacg 240

acgacttcac cggctccatg cccgagagcg agtgccgcta cgccgtcttc gacttcgact 300

tcaccaccga cgagaactgc cagaagagca agatcttgtt catctcctgg tccccggaca 360

cctcgagggt caggagcaag atgctgtacg cgagctccaa ggaccggttc aagagggagc 420

tggagggcat tcagctggag ct 442

<210> 41953
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-013-Q1-K1-G3

<400> 41953

cacaaggaac tacatgaccc agagcctttg gggcccttca atgtctgtta gcggtggcgt 60

caatgtccca gtgatgcaga ccccgctctg tgctaatgct cctgctgaga aaggaggcaa 120

gaacttcatg attgatttca tgatgggcgg tgtttcagct gctgtttcaa agactgctgc 180

tgctcccatc gagcgtgtga agctgcttat tcagaaccaa gatgagatga ttaagtctgg 240

taggctatca gagccgtaca agggtattgt tgactgcttc aaacgtacca ttaaggatga 300

aggtttctct tccttgtgga ggggtaacac tgctaatgtt attncgtact tccctactca 360

ggctttgaac tttgcattta aggactac 388

<210> 41954
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G4

<400> 41954

gaagagccgg attgcccaga agtgttccgt tcccgaccgc ggaggagagc ggcggacggc 60

ttccctgccg ctgccggccg ccttcctcga gttcctcagc gagaacggcc tggaccctgc 120

ggtgtactca atggcagcca ccatcccgcg ctacataagg ctaaaaccag gcatggagtc 180

caagatcgca gagattgaag ccgagttgaa gtgtgccctt gacaaggttt atggctgcc 240

tgggttctat gcgattccgc cggaaattca gattgctggc tccaaggctt atcagcaagg 300

gaagatctat ggaattgatg ccgcttctgg agctgctata ttagcacttg atgttcgacc 360

aggaaatcat gttcttgacc tctgtgctgc cccaggtgca aagctttgca tgct 414

<210> 41955
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G5

<400> 41955

gctgcctgga ggcgggctcc tcgtgttcca gagcttctgt gctgctgaag acgctgttgc 60

tacctcgccc aaatctgttt tccactgctt tgacggcgag aacgtggaga gtgctcctcc 120

tcctatgaag aaggactaca aactggctaa tcttctatgc tgggaggagg aagcggatgc 180

catggaggag aaggcgggag tgcttgatga gtaagacggg cttctggggt cgatttgctt 240

ctgagttgtt tattttatat cgtcgcaatt tcgtggttgt cgtttggtta ttctgtgaag 300

cagccaagcc aagctattgt tatgaaaatt tgtcgtctgt aagcatgtga acttccgacg 360

ttgccacatg ctggatcagt ctgaataagt aagtatgcag ctctaggtgg tcagctgcgt 420

ctaccac 427

<210> 41956
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G6

<400> 41956

gcgtgcggca acgtccccat cttcaaggac ggcaagggct gcggctcatg ctacgaggtg 60

agatgcaagg aaaaacctga gtgctcgggc aatccagtca cggtgtacat cactgacatg 120

aactacgagc ctatcgctcc ctaccacttc gacttgagcg gcaaggcctt cggctccctg 180

gcaaagcccg ggctcaacga caagattcgc cactgcggca tcatggacgt cgagttcaga 240

agggtgcgat gcaagtaccc cgccgggcag aagatcgtgt tccacatcga gaagggctgc 300

aaccccaact acctggccgt gctggtgaag tatgtggcgg acgacggcga catcgtgctg 360

atggaaatcc aggacaagtt gtcggctgag tggaagccca tgaagctctc ttggggcgcc 420

aatctgagga tggacact 438

<210> 41957
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G7

<400> 41957

ctctgctgaa gatgtttggt gacttccata atgatacagc tgaagagcgc aatgtccgct 60

ttggagtcag agagcacgga atgggcgcca tttgcaacgg cattgctctg cacagaccaa 120

gggttgttcc gtactgtgct acattctttg tcttcactga ttacatg 167

<210> 41958
<211> 367
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-013-Q1-K1-F12

<400> 41958

cacgcgtgcg cttgaatgga actttcttga attccatgca gntcatcatc caaatgctga 60

gtggaggggt tggggtgaac ctgctgaact tgcacatggt gatattataa ctctagggac 120

ttcatctaaa ctatctgttc aaattacact gcaaaatcaa cgagttcctg ctggtgttgg 180

tatggcatcc gatccaatgg tggcacgtag aagtggaaag aaacttccaa tggaagacat 240

aagcttttgc cagtgtcctc tgcagggtgt tgaacatttt gggctctttg gaatttttga 300

tggacatggt ggggatggag ctgccaaagc tgtcagcaag attctttcaa aaaatctggg 360

atacatg 367

<210> 41959
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G8

<400> 41959

aaacccatca accatcccaa actctgcttc gtttattgcc tttaacgacg actgcaatct 60

caacttccat tacctcaagt ccaagctaat ctttcctttc atcaccttca acatcaacgt 120

acatactcta tcatttattt tttatttatt accaac 156

<210> 41960
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G9

<400> 41960

cgccagttca gccacgtgga gagggcagat cctagaagag ccggcgccat gagctcggcg 60

gcggggtcca ccatctcggc cggcgaaaac gtcgcttatt ccatcgacgc gctctaccgc 120

aaggaccaag ccctggctga actcaagtct gaagtgatgg aagcccttca aaagg 175

<210> 41961
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D3

<400> 41961

gtatatattg caaaggtaca ctgtcttatc aagaaaagat gttccgtttg aaagaattga 60

taagagcttc agggggaaga ttggagttac taaatcatac agacagaaaa tgttgttaac 120

gaaaacaatg aaagtagttc gccaggcgtg tatgtcaaaa gcagggtacg ataaggcgat 180

ggatgtgttg gatgagctcg atgtcgttct aagccgattg gagccagata ttggatgtaa 240

tgagtcaaca gatgttagtg ataatgagga agacaaggaa gaagagttga ataaaaataa 300

tgctggcaat gggatggaag atgacaatac aattacatgt cataataagg attcgcataa 360

caccaggtct ggatgtgaac atgcgttaac aataataaca act 403

<210> 41962
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D4

<400> 41962

ccaggccacc tgccgggaga tctattttca ggtgttggtg ctccaggaag tggcgggtga 60

tcaggtatat ttgggccagg atttccagag ttagagcaag ttgagcagca tttaagccag 120

aatcccaact tgatgaggga gataatgaat atgccagcga tgcaaaatct catgaataac 180

cctgatttaa tacgcaatat gattatgagc aacccacaaa tgcgcgagat catggatcgg 240

aatcctgatc ttgcccatgt gctcaatgac ccaagtgtcc tccgccaaac cctcgaagct 300

gctaggaacc cttgaatcat gagagagatg atgcggaaca cagacagagc tatgagcaac 360

attgagtcct ctcctgaagg ttttaatatg ctccgtcgca tgtatgaaac tgtccaggag 420

ccatttctaa atgcaacaac aatgagcg 448

<210> 41963
<211> 126
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-013-Q1-K1-D5

<400> 41963

ggactgcctt gatattggtg gcttgaattt tgaacataan aaagctactt tgcccaggtt 60

cacttttccc ctctcaacac gcctcataac atcactttcc aataatttta tactaccaat 120

aaacat 126

<210> 41964
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D6

<400> 41964

cgcaccggca ccaccaccaa ccgagcggct ccaggctcct gctcaggaag gggagaagag 60

gcgagccttc cttgggaagt cgcaggagga gagaagggga acaaagatgg ggcgcggcaa 120

gatcgagatc aagcggatcg agaactccac caaccgccag gtgaccttct ccaagcgccg 180

caacgggatc ctcaagaagg cgcgggagat cagcgtgctc tgcgacgccg aggtcggcgt 240

cgtcgtcttc tccagcgccg gcaagcttta cgactactgc tccccgaaga catcgctatc 300

aaaaatcctg gagaagtacc aaaccaactc ttgaaagata cttgggggtg agaagcacaa 360

gagccttaat gcagagattg accgtattaa gaaagagaac ga 402

<210> 41965
<211> 141
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-013-Q1-K1-D7

<400> 41965

acgaaaaccc tcgcggcgag gagcgctctt cgttccacac acgcgcgccg gagncttcgg 60

agggcgcacc tgccttcacg acttgtcggg ctcgtgcgct actcttcttg agcgcggggc 120

ggagcacggg gacatcaaat g 141

<210> 41966
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D8

<400> 41966

cgcagagata ggcgtcttcg tactcgccta cctccggggg tcaaaccttt ccccccttcgg 60

ccggttcccg ccgccgctcc atcccgtaac gcgacaccat gagggagtgc atttcgatcc 120

acatcggcca ggccggtatc caggtcggaa acgcgtgctg ggagctgtac tgccttgagc 180

atggcattca ggctgacggt cagatgcccg gtgacaagac cattggggga ggtgatgatg 240

ctttcaacac cttcttcagt gagactggtg cttggaagca cgtgcccc 288

<210> 41967

<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D9

<400> 41967

ctgcttcttc tagctcatgg cctggccatt ccatgtcgcg ctggctgcgt ttcatttcat 60

gggagaaagc aagggtggat cacagggtgg ccgtctgcta aataaactac atacctttgg 120

ctttaaagac tgggttgggg gattggtaca catcacaaga cacattgggc aaatttttt 180

ttcacagaag gagtagggga tgggttaaac attgggttaa ttccccaccc cggggttttc 240

cgtttcccgt tgtgttaaca tgaccaactt ttgttggcaa tggggctaaa aataaattta 300

ttcctctttt attgaatggt tttgc 325

<210> 41968
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-E1

<400> 41968

gcatcgttcg ttcatccatc aactactgta aattagagag ccggatctct tggtcggaga 60

acctgcgagg aaggactaag gagtcgaaga tgactgcggc ggtgctgtcc gtgcgcacga 120

cgacgacgtc gctgctagca gcagtcatcc tgtgcctctg catcgtctcc ctctcccccc 180

gcggcgccgc tgccgcgcgg gtctcccccg gcgccagccc gatcgtggcc acctgcatga 240

cgggcccgta cccggagctg tgcgtggggg agctgggaca gcggctgctg gacgtgcaga 300

cgtcgatcgc gtccgcggcg cccgaccagc gcgcgggcag gatcgcgggc gccccggggc 360

<210> 41969
<211> 247
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-013-Q1-K1-E10

<400> 41969

cccacgcgtn cgagacaaat atacttcata gggaccaaaa tacttaacgc gatgaagcag 60

gtgagtggtt gtgacattgc ttcaccaggc gtaccttcta tggcttcgca gtgtatccct 120

tccacaagtc gttcgacatc tccatcaagt gcaatttcgg ttgatagatc catgttggaa 180

gctgcacatg aaaaggagaa agagctgctg aatgaagtct tggagctgca atggcggtta 240

ctatgca 247

<210> 41970
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-E12

<400> 41970

acagcatagg ggtggttctt ttgtcatgtc accatctttg ttgcaccaac atgctccagg 60

cagatcaatc agggagcagg aagtttcatc cggagtgcca ccaactaaag cttcacaagc 120

tatgatggat gaaccgcttg aaaatgtcaa tggacaaact gaagagttgc catcagagct 180

accctgctcg atcaagagac caaaattttc agttgcagaa cttctagaag acctacaggg 240

tagaagtggt tcttatgttg agacatcatc tttgtcacac caacacacca gagctaaaca 300

ttggaagcca aagttccttt ctttcgagaa gaaaacaata gctattctag gagacaggag 360

tattgacagt gaagacccct tggagcatgt cattgacgga acatctagcg aggaggaaga 420

ttcttcttaa aaccacttga gtttg 445

<210> 41971
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-E2

<400> 41971

gctcgcgtaa cctcctgccc atggctggag gcggcggcgc aggcgcgggc tcgtcgtgcg 60

gcggcggcgg agggggcggc agggagggcg actgggactg cggcagctgc ggcaaccgca 120

actacgcctt ccgctcgctc tgcaaccgct gcaagcagcc gcgcctcctc gtcgacccca 180

acaccccgcg cgactccaag tggctacccc gcgccgggga ctggatctgc accggttgca 240

gtaacaataa ttatgcatcc agaaagaact gcaaaaagtg tggcttgccc aaggaggaag 300

cagcaatgcc agcattgcaa atggcaggga tgactatgcc aacttatgca acttatatt 359

<210> 41972
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-E3

<400> 41972

cggacgcgtg ggcggacgcg tgggggaact tcatggaatc gcaatttttg tagggtgtgg 60

ggggagattc cacgactgta aatatgatga gatatgaaac agaaaagggg gtggcagatc 120

aacatcgacc ttctgtaatt agccagaata aaagaactag atgctttata ttgagcagag 180

ctctcgtctt tttgatcctc cccacggtgt agtatcaaga atgaataaat cttctgtttc 240

ttgtctggtt gtagcatgcc agcatctgta agttgtaaca attcagtgaa tttatttacc 300

ttcagc 306

<210> 41973
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-E4

<400> 41973

gcatcgatca cgacaagatg gcgtgcacaa acaatgcgat gagagccttg ttccgcctgg 60

tcctcttctg catcgtgcat ggtgagaagg aagagtcaaa gggcatcgat gcgaaagcgt 120

ccgggcctgg tgggtccttc gacatcacca agttgggcgc ctccggcaat ggcaagacag 180

acagcacgaa ggctgtgcag gaggcatggg catcggcatg cggcggcact gggaagcaga 240

caatcctcat acccaagggt gacttccttg tcggacaact caacttcaca ggcccttgca 300

agggcgacgt gaccatccag gtggatggca atctgctggc gaccacggac ctaagccagt 360

acaaggacca tggtaattgg atcgagattc tacgcgtgga taaccttgtc atcaccggca 420

agggaaacct tgacgggc 438

<210> 41974
<211> 265

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-E7

<400> 41974

agacaaaaca tggctgtgaa tgtgagcacc atttggtccg tgatgcaagc ccaagttggg 60

atggttgtgg ccgtgtcctt cttggtgagc cgcgcatggt gccgtccttc caaagtcccc 120

cctggcaaga acatcacggc cacctatggc aaggactggt tagacgccta agcaacatgg 180

tatggcaagc cgacgggtgc cggtcccgac gacaatggtg gcggctgcgg gtacaaagac 240

gtgaacaagc ccccctttca tagca 265

<210> 41975
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-E8

<400> 41975

cggacgcgtg ggttctggtg agactagatc tcgtcacatc caaccacgat ggaaacaagt 60

cctactagcc gtaatggggc ccgaacaaca ccagcggccg gtggatggga tcgctgcccg 120

ctcctgtcgt cgttgcccca ttggtggagg cccgaacagc acctgcaacc ggtggatggg 180

atcaccgcac cgcccctcgc cgttgttgcc ccatctgtgg agcacctcgt ggccggggat 240

gccgcccatg gcgaccaacc agctcaccct ctctttccat ggcgagtttc attccaggca 300

gatggactcg cacagtgtcc aagacgtgct tttactgctt ggagggaggg agctgagtag 360

tctgggtgga gca 373

<210> 41976
<211> 196
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-013-Q1-K1-E9

<400> 41976

acgggatcca aaatccacca cgatgagcat ctttggccgg ccgaaagccg cgggccccgg 60

cgggcaagaa gccgaagtgg aagcccttat cccggccggg ccagaagccg tgctccttaa 120

gctcaaaggg aactcccacc tcgtcttctc gggctncagc ccttctttcg ctcgacgcgg 180

cggaactcga tcccct 196

<210> 41977
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F1

<400> 41977

tgctgttctg gttgttttgg ggattgttta gcggagccac ttccttgcgc ttgtgcgaga 60

gaaactggcg gagactttgc ttatacgaga gatggcctgc ttaaagaagg atttctagat 120

gcgtgtgtct caatgctccg ggaaccactt aaacaaccgc acttctactg taagggtgtc 180

tgtcctattg agcaaataat gaagggagtc agctcagcga aacctgatgc ttgtaaaggg 240

caccttatta agaagtttat caaggaatgc tggataaaat gcggctgcac cagaaattgt 300

ggaaaccgtg tggttcagcg aggcattact cgcaaactgc aagtgttttt agcttctcgg 360

aaaaagggat ggggcttgcg ttctgctgaa aatcttcctc gtggtgcttt tgtatgcgag 420

tatgttggtg aaatattaac aaacac 446

<210> 41978
<211> 298
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-013-Q1-K1-F10

<400> 41978

cggacgcgtg ggcggtaggt cacatgcggt cggatggtga gagcctgaga gggggtggca 60

gcacagcacc atggcgcgcg cttcaccgtc cgtcccgacg cgtcggtcga gtactcgagt 120

cgtcagcggt cggtcggcac tcggcacccg attcttccaa agccgccact tatgtcctcg 180

cgagcttggt taataacgcc gcgtgagctg ggtgggtggg gagtttgtca gctgggtggc 240

gcgagcgtca ngcgatggcg gaggcggggg aaaaggcgag ggtcgtggtg gttggcgg 298